

# SLIDE RULE









1867

...

1967

CENTENNIAL EDITION







# Faith of the Engineer

I AM AN ENGINEER. In my profession I take deep pride, but without vain glory, to it I owe solemn obligations that I am eager to fulfil.

As an Engineer, I will participate in none but honest enterprise. To him that has engaged my services, as employer or client, I will give the utmost of performance and fidelity.

When needed, my skill and knowledge shall be given without reservation for the public good. From special capacity springs the obligation to use it well in the service of humanity; and I accept the challenge that this implies.

Jealous of the high repute of my calling, I will strive to protect the interests and the good name of any engineer that I know to be deserving; but I will not shrink, should duty dictate, from disclosing the truth regarding anyone that, by unscrupulous act, has shown himself unworthy of the profession.

Since the Age of Stone, human progress has been conditioned by the genius of my professional forebears. By them have been rendered usable to mankind Nature's vast resources of material and energy. By them have been vitalized and turned to practical account the principles of science and the revelations of technology. Except for this heritage of accumulated experience, my efforts would be feeble. I dedicate myself to the dissemination of engineering knowledge, and, especially, to the instruction of younger members of my profession in all its arts and traditions.

To my fellows I pledge, in the same full measure I ask of them, integrity and fair dealing, tolerance and respect, and devotion to the standards and the dignity of our profession; with the consciousness, always, that our special expertness carries with it the obligation to serve humanity with complete sincerity.



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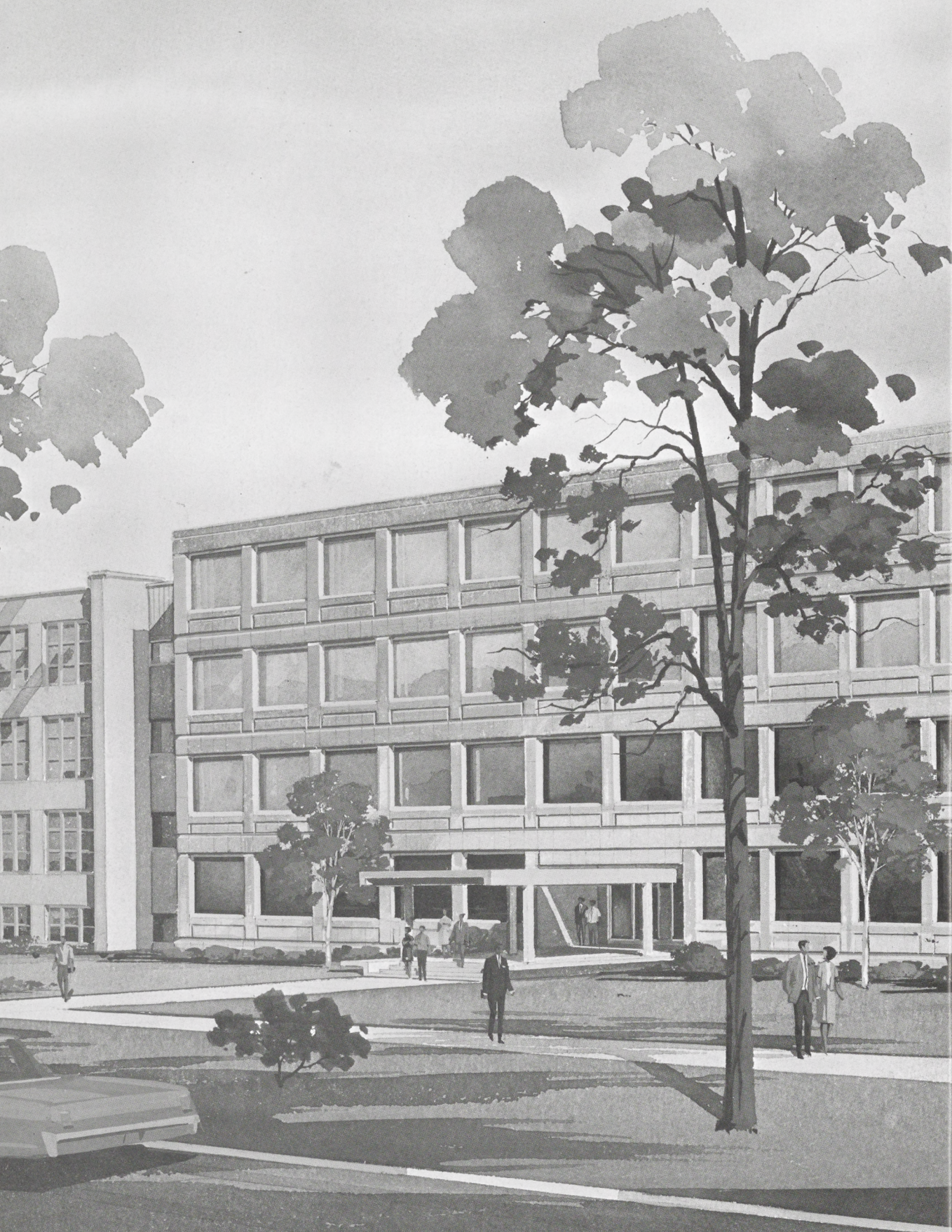
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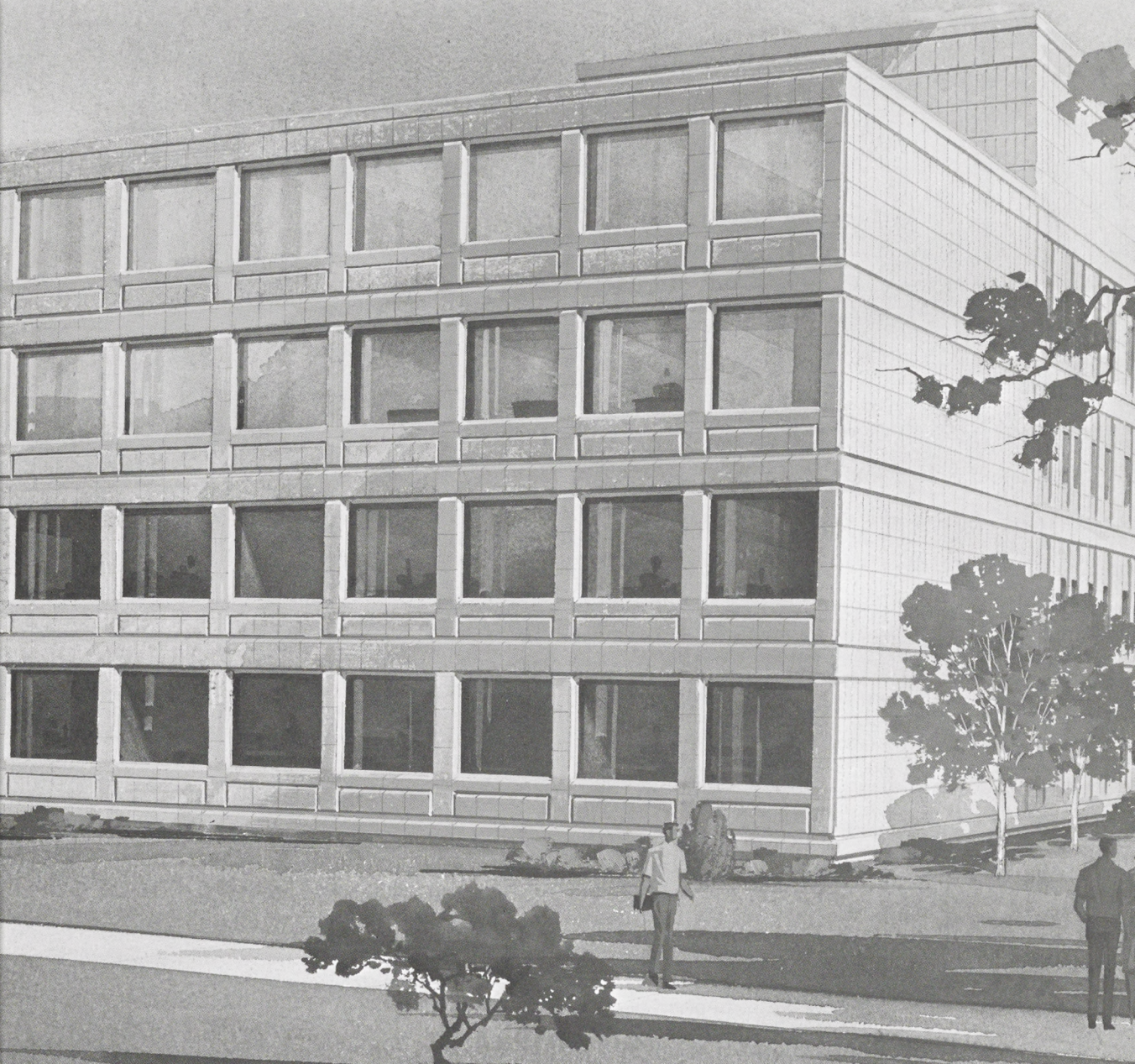
# NEW ENGINEERING BUILDING



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# UNIVERSITY OF MANITOBA ENGINEERING SOCIETY SLIDE RULE 1967



Editor: Barry Solnes

Committee Members:

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Ron Lowe  
Ken Montgomery  
Greg Huculak

Photography:

Trevor Dring  
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and

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## OUR DEAN

Dean Jack Hoogstraten, B.Sc. Civil Engineering (Manitoba), M.Sc. (Michigan), M.E.I.C., P. Eng., officially took over responsibility as Dean of our faculty in September 1964.

Previous to this, Dean Hoogstraten lectured at the University of Manitoba from 1937 to 1957, when he resigned as Professor of Civil Engineering to accept the position of President of the Nova Scotia Technical College. Four years later he returned to the University of Manitoba as the Vice-President in charge of development.

Dean Hoogstraten has served two terms as President of the Association of Professional Engineers of Manitoba, and chairman of the Winnipeg Branch, Engineering Institute of Canada.

In November 1964, under the auspices of the Colombo Plan through the Canadian External Aid Office, Dean Hoogstraten was named Canadian Director of the Thailand Development Project. Under Dean Hoogstraten's direction the University of North East Thailand has successfully been established at Khon Kaen, 300 miles north east of Bangkok.

In the past three years we have seen many of Dean Hoogstraten's constructive new ideas put into practise, in the addition to the Engineering Building and in progressive changes to the curriculum.

We are indeed fortunate to have Dean Hoogstraten with his wide experience and outstanding ability, as Dean of the Faculty of Engineering.



# A MESSAGE FROM THE DEAN

## DEVELOPMENTS IN THE FACULTY

Undergraduate enrolment during the last decade has been marked by a period of declining registrations, a pattern common to most Canadian and American engineering schools. The reasons for this general decline are not well understood, and no acceptable explanation has been forthcoming.

At Manitoba engineering enrolments rose during the 50's to a maximum of 835 in 1958-59 and then gradually declined (at a time when total university enrolments climbed rapidly) to 668 in 1962-63. Since this date, there has again been a steady increase, and the figures for the current year stands at 965.

This enrolment growth, together with increased stature of the engineer in the expanding economy of the country, pose a challenge to development within the Faculty. This is being met by a double-barrelled approach aimed at increased activity in research and improvements in undergraduate offerings.

During the last thirty months, research and graduate work has been stimulated by addition to the staff of 14 professors with research qualifications. It is expected that post graduate enrolments will increase and provide much-needed instructors to assist in laboratory, problem and reading assignments, thus freeing senior staff for more

productive work.

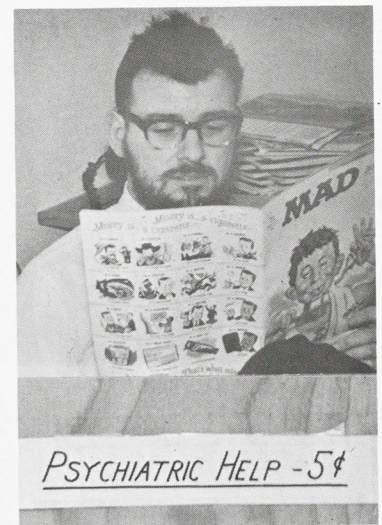
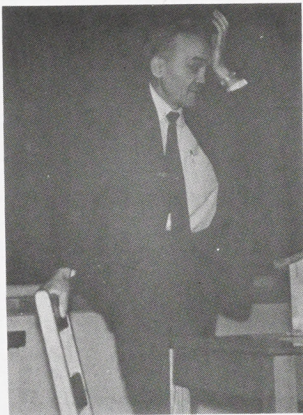
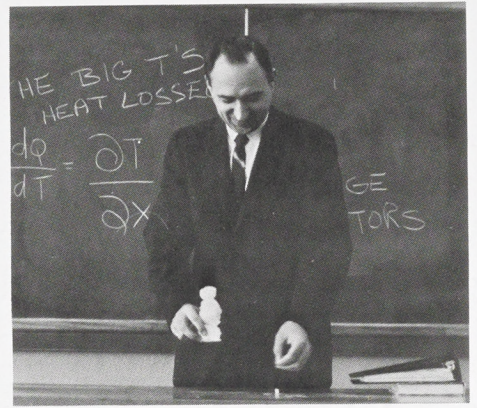
Undergraduate teaching is also receiving attention. Two senior professional engineers have been appointed to the staff, principally to strengthen undergraduate offerings. The revision of undergraduate curricula is proceeding as quickly as "phasing-in" procedures will permit.

In the old curricula, the student often was required to undertake as many as ten courses concurrently throughout the academic session. Courses are now being arranged, most of them on a term basis, so that a student will engage himself with no more than 6 courses at a time. English has been withdrawn from first year but, non-technical electives will be offered at third or fourth year level. This will give the student an opportunity to widen the range of his education by elective studies in Arts or in the social sciences.

Under consideration at the present time are new arrangements for grading, the abolition of supplemental examinations, and the possibility of allowing more time for those students who wish to proceed with their studies at a more leisurely pace.

It is hoped that these developments within the Faculty will ensure that we continue to turn out graduates with the skill and competence required of the profession.









FACULTY



# CIVIL STAFF



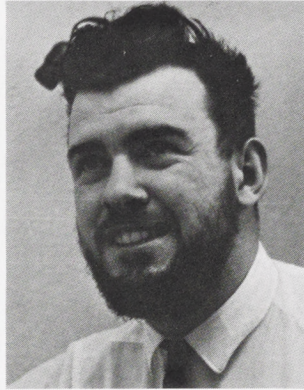
A.J. CARLSON  
B.Sc. (C.E.) (Qu.)  
M.A.Sc. (Tor.)  
Professor and Executive Secretary of Civil Engineering

Students who entered Engineering in 1966 are the first group to experience the start on a reconstructed curriculum for Civil Engineering. In second year Civil they will find courses designed to provide a base upon which to build their foundation for further study. In third year they will be given an opportunity to look at a broader spectrum, from which they will choose their major field of endeavour. In fourth year they will be required to take a number of core subjects, fundamental to Civil Engineering, and also have a choice of options in order to fulfill their desire to learn in a particular field.

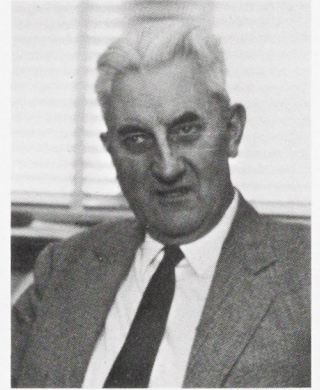
Additional equipment and staff members of a high calibre are being added and potential graduate students are urged to investigate the potentials of Graduate Study in the Department of Civil Engineering.



G.L. CLAYTON  
M.Sc. (C.E.) (Man.)  
Assistant Professor



A.M. LANSDOWN  
B.Sc. (C.E.) (Man.)  
Ph.D. (S'ton)  
Assistant Professor



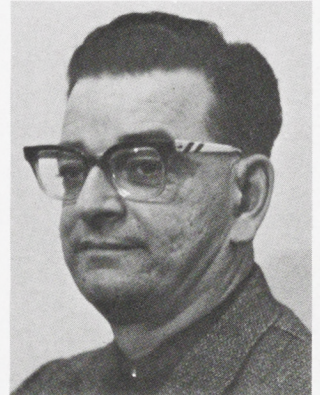
A.G. LARSON  
M.A.Sc. (C.E.) (U.B.C.)  
Associate Professor



O. MARANTZ  
M.Sc. (Man.)  
Associate Professor



R. LAZAR  
B.Sc. (C.E.) (Man.)  
M.Sc. (C.E.) (Ill.)  
Assistant Professor



W.P. BELEY  
M.Sc. (C.E.) (Man.)  
Assistant Professor

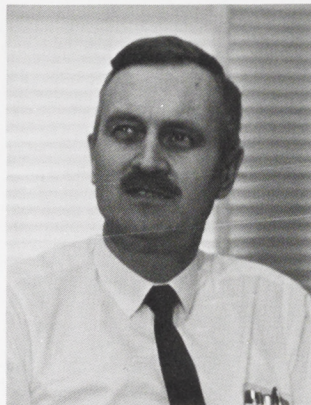




B.N. THADANI  
B.Eng. (Civil) (Poona Univ.)  
India, Ph.D. Bombay  
Assistant Professor



E. KUIPER  
B.Sc. (C.E.) (Delft)  
M.Sc. (C.E.) (M.I.T.)  
Associate Professor



V.L. DUTTON  
B.Sc. (C.E.) (Man.)  
M.Sc. (C.E.) (Penn.)  
Associate Professor



H. COHEN  
B.Sc. (Hon.) (Man.)  
Ph.D. (Minn.)  
Associate Professor



E.S. MAGILL  
B.Sc. (C.E.) (Man.)  
Associate Professor



J.D. WIEBE  
B.Sc. (C.E.) (Man.)  
Lecturer



L. DOMASCHUK  
B.S. (C.E.) (Man.)  
M.Sc. (Alta.) Ph.D. (Georgia Tech)  
Assistant Professor



A. BARACOS  
M.Sc. (C.E.) (Alta.)  
Associate Professor



C. BOOY  
Civil Engineer,  
Tech. Univ. of Delft,  
Associate Professor



# ELECTRICAL STAFF



J.P.C. McMATH  
B.Sc. (E.E.) (Alta.)  
Professor and Head of  
Electrical Engineering

Electrical Engineering commenced in third year its new "Electrical Engineering" and "Electrical Science" streams, which will be continued next year in a completely revised fourth year. The new curriculum features a broader and more generalized approach plus a reduction in hours. In preparation for a considerable expansion in Graduate activity and also in numbers of students, several new staff members, all with advanced degrees and some with extensive research experience, have been added, and more will be sought.

Scholarship support for graduate students has vastly improved and it is hoped that more well-qualified and motivated students may be encouraged to proceed toward higher degrees.

In any event, it appears certain that the graduate in Electrical Engineering will be entering a stimulating, challenging and rewarding field.



H.A. MacDIARMID  
M.Sc. (E.E.) (Man.)  
Associate Professor



E. BRIDGES  
M.Sc. (E.E.) (Man.)  
Associate Professor

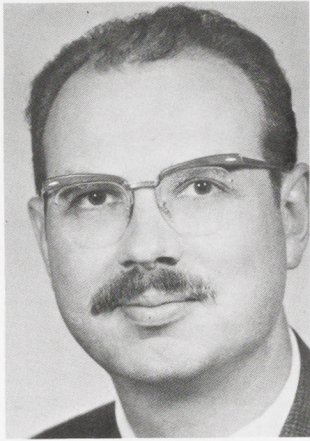


H.K. KIM  
B.Sc. (E.E.) (Korea)  
M.Sc., Ph.D., (Penn.)  
Assistant Professor



A. JAKOBSCHUK  
B.Sc. (E.P.) (Man.)  
M.Sc. (Minn.)  
Assistant Professor

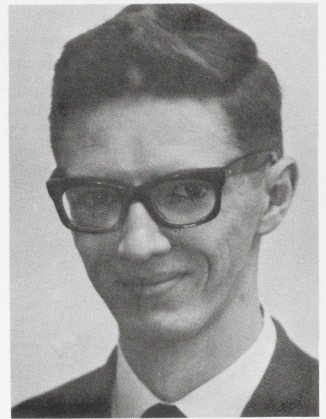




R.A. JOHNSON  
M.Sc. (Man.)  
Professor



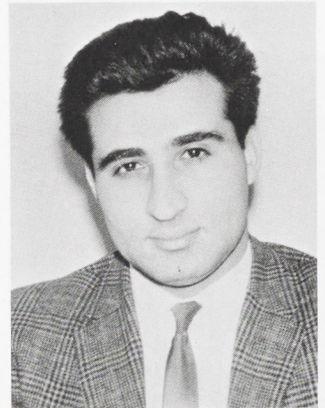
M.A.K. HAMID  
M.Eng. (McG.)  
Ph.D. (Toronto)  
Assistant Professor



W.H. LEHN  
B.Sc. (E.P.) (Man.)  
M.Sc. (E.E.) (M.I.T.)  
Assistant Professor



A. SIMEON  
M.Sc.(E.E.) (Man.)  
Assistant Professor



B. HALIL  
B.Sc. (E.E.) Middle East Tech.  
Univ., M.Sc. (E.E.) (Man.)  
Lecturer



G.O. MARTENS  
B.Sc. (E.E.) (Man.)  
M.A.Sc. (Toronto)  
Ph.D. (Illinois)  
Assistant Professor



M. YUNIK  
M.Sc. (E.E.) (Man.)  
Lecturer



K.C. KAO  
B.Sc. (E.E.) (Nanking)  
M.Sc. (Mich.) Ph.D. (Birmingham)  
Associate Professor



# MECHANICAL STAFF



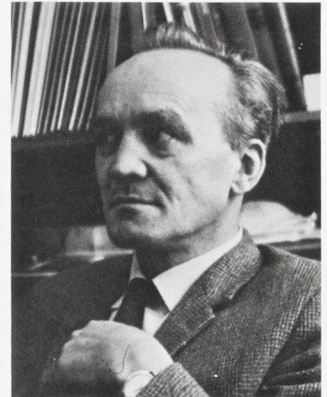
R.E. CHANT  
M.Eng. (Mech.) (McG.)  
Professor and Head of  
Mechanical Engineering

This has been a year of development and planning in the Department of Mechanical Engineering. Generally speaking, an attempt is being made to reduce the number of courses that a student must concern himself with at any particular time. However, the amount of material to be covered is increasing, thus the new courses must be intensive. The staff member must use the lecture time to review and discuss principles only, and the student must devote more time outside the classroom and consolidate the principles by further reading and problem solving.

The process will be most beneficial; the student will gain more confidence in self-discovery and in the art of self-learning. These are qualities which the engineer must have to practise and to continue to practise in today's society - a society which is marked by the exponential growth of technical knowledge.



W.D. ALEXANDER  
B.Sc. (M.E.) (Man.)  
M.Sc. (M.E.) (Mich.)  
Associate Professor



C.P. BENNETT  
B.Sc. (M.E.) (Man.)  
M.Sc. (Birm.)  
Assistant Professor



K.K. TANGRI  
B.Sc. (Panj.)  
B.Sc. (B.H.U. India)  
M.Sc., Ph.D., (Missouri)  
Professor



R.H. SCHILLING  
B.Sc. (M.E.) (Man.)  
Lecturer



H.N. GAWLEY  
B.E. (M.E.) (Sask.)  
Associate Professor





S.W. GREENWOOD  
B.Sc. (M.E.) (Bristol)  
M.Eng. (McGill)  
Associate Professor



R.S. AZAD  
B.Sc. (Hons.), Ph.D.  
(Nottingham)  
Assistant Professor



J. SHEWCHUCK  
B.Sc. (M.E.) (Sask.)  
M.Sc. (Sask.) Ph.D.  
(Eng. Mech.) (Penn. State)  
Associate Professor



D.W. CRAIK  
B.Sc. (M.E.) (Man.)  
M.Sc. (Minn.)  
Associate Professor



M.Z. TARNAWECKY  
M.Sc. (E.E.) (Man.)  
Associate Professor

## GEOLOGICAL STAFF



G.A. RUSSELL  
E.M. (Geol.) (Minn.)  
M.Sc. (Queen's)  
Associate Professor

As the struggle increases in intensity - between various groups to enlist the minds of young people contemplating higher education, we - in Geological Engineering - cannot subscribe. Basically the course is the toughest in the University and this is as it should be because our young men are trained to a very high point. The main thing from which we receive gratification is the overall acceptance of our graduates by industry and government services in which a high degree of excellence is required.

It has become obvious that in an attempt to woo prospective students, various disciplines have lowered their requirements. We have not and we will not. Please take a long, hard, cold look at the course of studies. If you decide to be a Geological Engineer, please don't cry.

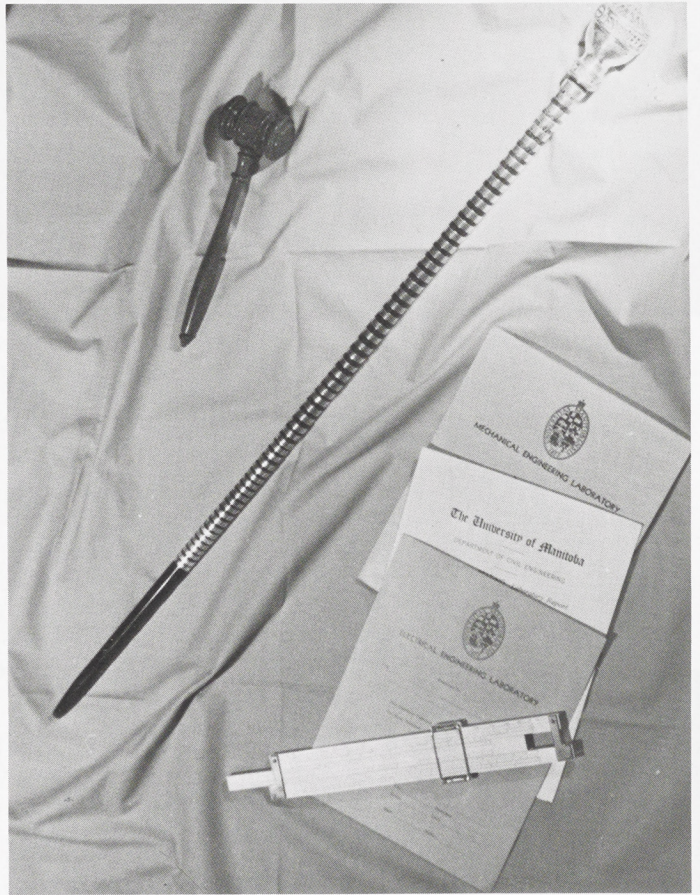




This is the Council that worked so hard to make this year the success it was.







COUNCIL



# U.M.E.S. COUNCIL

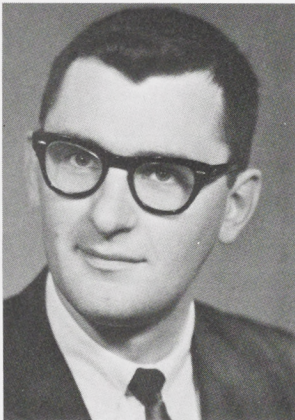


FRONT ROW: Barry Solnes, Editor; Mike Clark, SEIC; Bob Eby, Secretary; Wally Strutt, Senior Stick; Ted Truman, UMSU Rep; Bob Kruger, Treasurer.

MIDDLE ROW: Jim Buchanan, IIC; Brian Gibson, Athletics; Roman Diduch, Brown & Gold; Ross Vermilyea, Drama; Ken Cooper, Social; Wayne Elliott, I-4; Pat Martin, I-5; Greg Wilson, II-E.

BACK ROW: Ron Lowe, Publications Business Manager; Tam Mohammed, Purchasing; Eugene Wawrin, Manitoban & Publicity; Don Sparkes, I-1; Adrian Palmer, I-2; Doug Chapman, III-E"S"; Don Pearson, II-M.

MISSING: Ed Shinewald, Debating; Ken Montgomery, III-M; Rick Lord, III-E; Richard Edghill, II-C; Rick Fenton, I-3; Greg Huculak, I-6.



W. J. STRUTT  
Senior Stick  
1966 - 1967

## SENIOR STICK'S MESSAGE

May I take this opportunity to say that serving as Senior Stick this past year has been an extremely gratifying and rewarding experience for me. It has been a distinct pleasure to work with the executive and all the committee chairmen throughout the year, without whose enthusiastic attitude and diligent work this year would not have been the success it was. From Freshie Week to the Awards Banquet, both socially and athletically, our endeavours were carried out in true engineering style and the men involved can feel justifiably proud of their efforts.

I am confident that all the graduates will never forget the years they have spent in the Engineering Building, and to the graduates of 1967, I offer my sincere congratulations and my hope for their continued success. To the present undergrads, I urge you to intelligently put to use the means at your disposal to keep our council and thereby the society as a whole on the right path. Therein lies the success by which you will insure that our faculty maintains its present position and accompanying prestige as campus leader. Accept this challenge thoroughly and I am confident you will provide our faculty with continued success in the realm of student activities.



# HONORARY PRESIDENT'S

## MESSAGE



R. T. HARLAND  
B. Sc. (E. E. )(Man. )  
M. Eng. (M. I. T. )  
Asst. Gen. Mgr.  
Winnipeg Hydro,  
Past President, A. P. E. M.

Webster defines "engineering" as: "The art and science by which the properties of matter and the sources of power in nature are made useful to man in structures, machines, and manufactured products; the occupation and work of a professional engineer".

Students completing their first year's training will recognize how each course is giving them some fundamental knowledge needed to fulfill this role. The fourth year man will better understand that Webster - basically accurate as always - has merely touched the surface of the work required of a professional engineer.

Think back, if you will, of the dates on which were made the discoveries and developments on which your work will be based. Weren't a majority made in this century? And possibly close to a majority in the last 20 years? Now try extrapolating this discovery curve into the future. This is the next challenge your work will present - retaining your professional competence in an ever-changing technological climate. Certainly postgraduate work, up-grading courses, self-study, and involvement in technical societies are primary requisites.

But, the profession expects much more than technical competence of you. Your training should have instilled in you the logical approach to problems and their solutions. And the world needs logic. But to have your ideas accepted, you must influence other men, and the only way this can be done is by working with them, in social groups, professional associations, service clubs, community projects, even, if your talents lie in this direction, politics. For the more men recognize and respect your opinions and qualities of leadership, the more you will influence society, and the better will be the public image of the professional engineer. And you will have done your part to repay society for the investment it has made in your education.

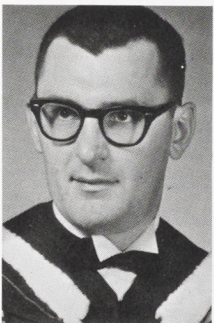


## FACULTY ADVISOR

DR. A. M. LANSDOWN  
Faculty Advisor 1966 - 1967

This year's edition of the U. M. E. S. Council was fortunate to have Dr. Lansdown as faculty advisor. He showed a keen interest in council activities, and his advice was appreciated and respected.

## ATHLONE FELLOWS

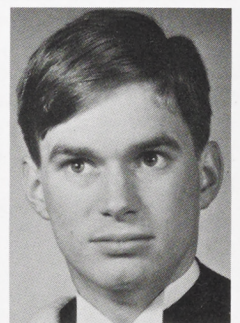


WALTER J. STRUTT  
B. Sc. (M. E. ) 1967

Wally plans to work towards a Master's degree in Instrumentation and Control Engineering at City University in London.

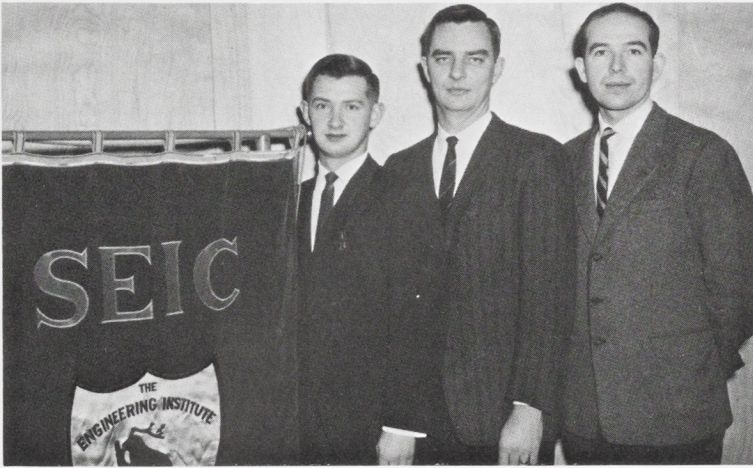
JOHN W. PATCHELL  
B. Sc. (E. P. ) 1967

John is heading for a Ph. D. in Automatic Control Systems at the University of Edinburgh.





# S.E.I.C.



## S.E.I.C. EXECUTIVE

LEFT TO RIGHT:  
Mike Clark, Chairman  
Dave Tyerman, Vice-Chairman  
Kurt Lund, Secretary.

The SEIC throughout the '66 - '67 term has continued to provide its members with technical information in the form of noon-hour movies and talks. Among the notable guest speakers were Mr. E. M. Scott, who presented a talk on The Nelson River Project, and Mr. F. A. Christie, who spoke on Rocket Motor Development.

Other functions included the first

annual Student Night dinner at which student members heard Mr. I. MacDonald speak on Supersonic Aircraft Selection.

On behalf of the executive, I would like to thank all those members who helped make this year the success it was.

Mike Clark, Chairman '66 - '67.

# I.E.E.E.

## I.E.E.E. EXECUTIVE

LEFT TO RIGHT:  
Jack Katzberg, Treasurer  
Deo Ramnarine, Chairman  
Tom Gillman, Vice-Chairman  
Peter Wagner, Secretary



I. E. E. E. Meetings take the form of films on engineering developments, guest speakers, or field trips.

Field trips consist of visits to Nuclear Reactor (Pinawa), Hydro generating plant, and Manitoba Telephone System Central System, to name a few. This year CAE was visited for the first time; a trip to Minuteman Missile site in North Dakota is also planned.

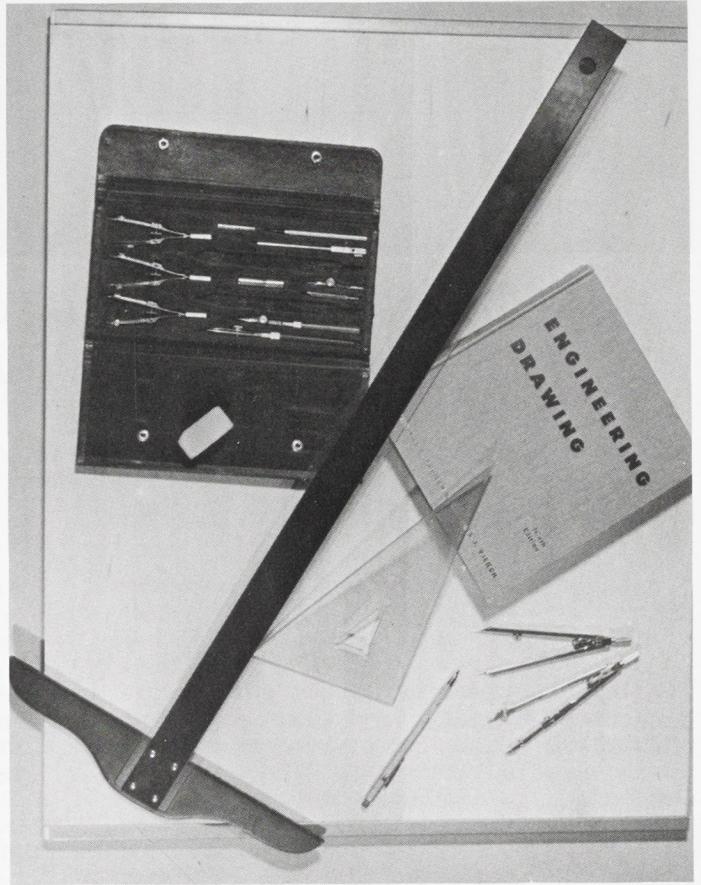
Mr. A. Larson of IBM one of our guest

speakers gave a talk on computer application to industry. Also Mr. B. McDonald discussed the application of the computer in the operation of the New Victoria Hospital.

I extend thanks to both our guest speakers, Prof. H. MacDiarmid, our counsellor, and Peter, my hard working executive.

Deo Ramnarine, Chairman '66 - '67.

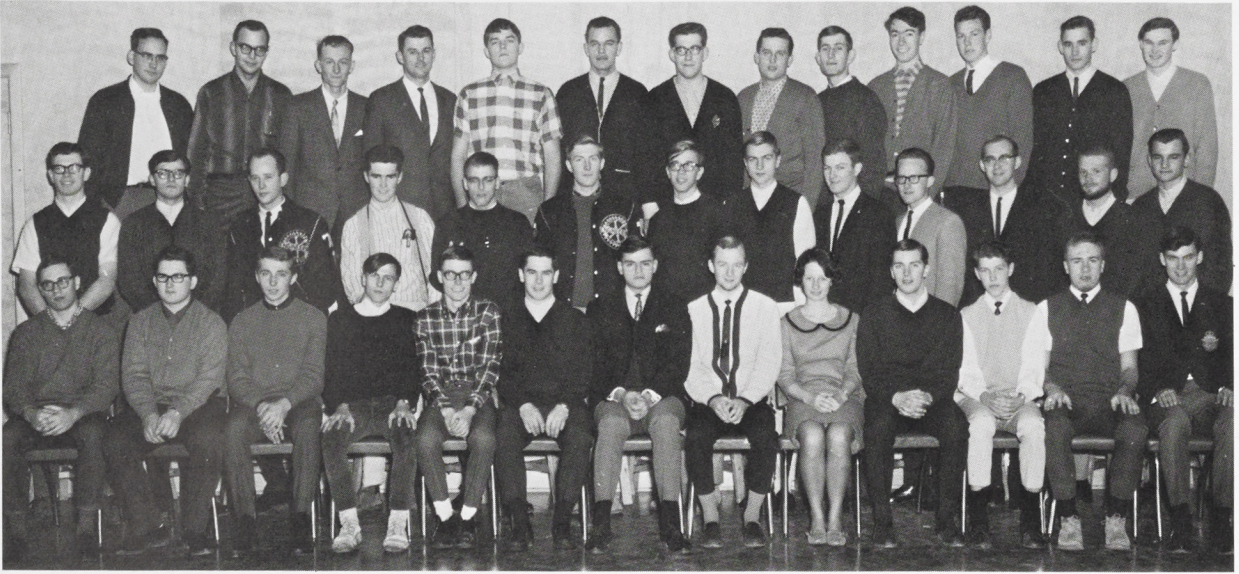




FIRST YEAR



# SECTION 1



FRONT ROW: Ed Pudsey, Brian Korbaylo, Trevor Mellors, Phil Pearson, Bill Grant, Bert Formuziewich, Don Sparkes, Lyn Heaman, Kathy Gissing, Gary Pinkos, Ross Manning, Ron Payne, Wayne McGimpsey.

MIDDLE ROW: Larry Smyth, Wally Pyl, Dave Turner, Bill Anderson, Doug Wilding, Bob Sizeland, Bruce Farmer, Ron Basarab, John Harbottle, Chuck Lund, Don Miller, Ross Rettie, Carl Gusta.

BACK ROW: George Lobay, Len Homeniuk, Tony Bohdan, Vern Zalevich, Ken Oryniak, Wes OGREYSIK, Grant Malkoske, Rick Piotrowski, Andrew Ilnyckyj, Gerry Price, Al Jorgenson, John Cloriston, Jim Copping.

The school year of 1966-67 will be a memory when this is being read. For many of us it will be a unique memory of our first year of university life. The year started with the carefree sunny days of fall and football on the quadrangle. The Engineering Pep Rallies and the cross-campus marches were great fun (great jokes and songs, though not enough girls). As for the capers pulled off during Freshie Week, Section One was largely to blame. As I remember, it was mostly the men of Section One who were responsible for the abduction of St. John's mascot, for the raid on the staff room at the Buller Biological Laboratories, and a number of other unmentionable stunts. Section One men also had a hand in the building of the Engineering float for the Freshie Parade; the float won first prize. Those of us who attended the parade felt the pride of being engineers and, for some, the parade was a rewarding experience in more ways than

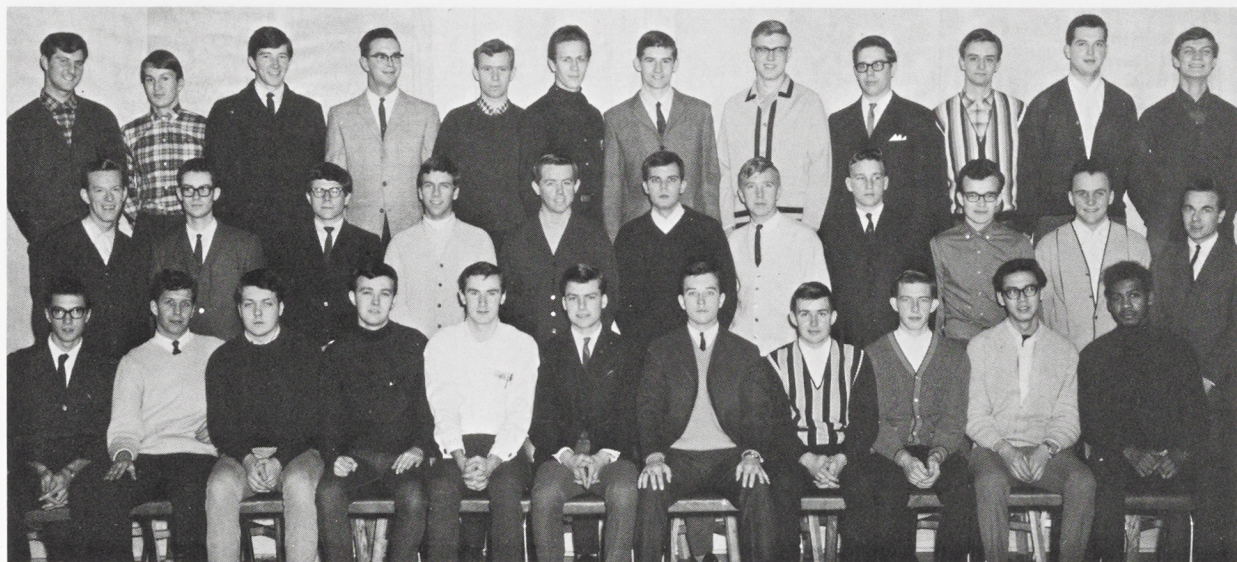
one. In the weeks to follow there was a number of other events. One was the "Freshman's Banquet". We will never forget the nurses of '66 (especially the fellows that had the blind dates). The Power Prom had to be the social "high" light of the year (but the morning after. . . .).

But back to the reason of being here. The first few weeks at university were somewhat misleading but, the weeks to follow were certainly not. The hardwork began and continued right till the bitter end. All of us followed that sometimes necessary pastime "C-jobbing" at one time or another. Among our professors, our chemistry teacher will always hold a place dear in the hearts of the men of Section One (satire).

To all who read this write-up as second year men in '67, congratulations! You deserve it.



## SECTION 2



FRONT ROW: Louis Richard Bob Blyth, Gary Reimer, Bill Dexter, John Mollison, Adrian Palmer, Robert Bickford, Bob Lindstrom, Alan Friesen, Yow Mack, John Beharry.

SECOND ROW: Bill Doig, Lorne Douglas, Greg Prygrocki, Dave Cameron, Ted Wall, Anthony Zielonko, Dave Gill, Gord Peitsch, John Gandecki, Richard Walker, Adolf Machel.

BACK ROW: Dan Kelm, Dick Zeeuwen, Bob Denoon, Vester Bailey, John Garvey, Alfred Wolke, Dwight Gibson, John Davidson, Chuck Haywood, Roy Wiebe, Jack Blacher, Greg Warbanski.

As indicated by their many accomplishments, Section Two enjoyed a successful, spirited year. Freshie Week started the year with a bang. Several of those Section Two stalwarts who managed to come through the aptitude tests and IBM card jungle unscathed were instrumental in building the Engineering float which was such a burning success. Section Two was also well represented at the Freshman Banquet and dance.

Later in the fall, the Special Events Committee announced a fence-painting contest, the prize for which was to be two cases of refreshments. Naturally, Section Two's

response to this was overwhelming, and Master Painters Martins, Palmer, Powell and Taylor were soon out there artistically splattering the fence according to Kumka's sketch. The result was a masterpiece worthy of the best Engineer but through some apparent oversight of the judges, Section Two just failed to win the contest.

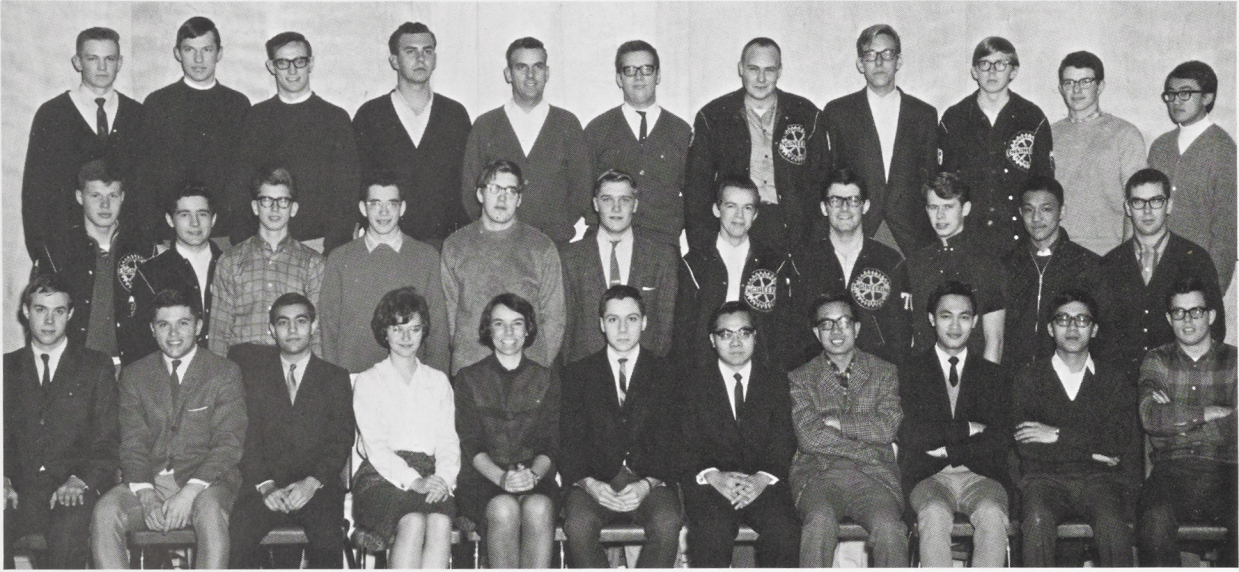
In short, the men of Section Two had a great first year and for me it was a privilege and an honour to represent them. Good luck for the future to all the men of Section Two.



"One fact is better than one hundred analogies."



## SECTION 3



FRONT ROW: Alien, Alien, Taner Derbentli, Linda Jones, Gwen Davidson, Rick Fenton, Giovannie Leung, Lawrence Fung, Allan Tong, Charles Yuen, Don Gregg. SECOND ROW: Arnold Anderson, Roy Houston, Ron Andrusco, Herman Kesterke, Gordon Pizey, Roy Lycar, Lloyd Nabe, Fred Ennis, Don Price, Hon Shan Lee, Rick McNeill.

BACK ROW: Bruce Golke, Eugene Reimer, Brian Murphy, Norman Drabek, Yres Savignac, Larry Munday, Rick Feldstead, Ron Doersam, Jim Jackson, Jim Bray, Rod Sakiyama.

It is the consensus of opinion that the Power Prom is the main event in the Engineering Curriculum; however, Section Three has proved otherwise. On October 20th, 1966, Section Three won "The Fence Painting Contest" sponsored by the University of Manitoba Engineering Faculty. Unfortunately, Dean Hoogstraten, President Saunderson and other dignitaries were unable to attend the presentation, but the cere-

mony was conducted with a reasonable degree of success, and the prize of forty-eight bottles of refreshments was warmly received by Section Three members amid elated cheers and frenzied thirsts.

As for the rest of the year, section members were content to concern themselves with classwork and the pursuit of a higher education!



"Not to advance is to recede."



# SECTION 4



FRONT ROW: Stew Bright, Larry Pommen, Larry Mackie, Gary Scott, Allan Malanik, Edward Walker, Bob Inglis, David Stones, Cliff Allen, Marvin Weselowski.  
 SECOND ROW: Jim Johannesson, Lanny Hubbard, Patrick S. P. Lam, Norman Haroon, Peter Martens, John Maksimow, Bill Forsythe, Wayne Elliott, Bruce Newton, Edward Rempel, Lawrence Kulczycki, Wayne Brown, Eric Du Russel, David Primmer.  
 THIRD ROW: David Leung, Robert Dunlop, Nick Kalansky, S. M. Cher, Joseph M. T. Kwolo, Chris Martin, Brian Roberts, Jeff Anderson, Eddy Pacholok, Horace Dansercrau, Robert Kutzak, Richard Carson, Robert Lidington, Richard Cuvelier, Frank Saccomanno.  
 BACK ROW: Robert Sukkou, Gordon English, Dan Wiwchar, Lloyd Kuhn, Craig Gibson, Ted Kuchnicki, Dan Baydach, Keith Witney, Dan White, Gerd Roziewski, Robert Snell, Harold Surminski, Richard Graham, Rick Schellenberg, Tony Masi.

Section Four is a group of proud young Scholars. It has been said that the only thing that we lack is enough I.D. 's. This tended to put us in a somewhat difficult position when word came around that Calculus classes would be held in the Montcalm until further notice. The problem was soon solved by a great outcrop of beards. Now some of the veterans have it in mind to convince the physics department that physics lab should be held in the Cambridge.

May we now take one minute's silence in memory of our lost comrades who deemed it wise to drop out quietly. Last Monday morning at UMSU coffee conference a shortage of seven classmates was reported. However, this count may not be exact as one or two of the fellows may have decided to attend class.

At this time it seems that a section party is inevitable at which time we will

choose our Power Prom Queen candidate. This will give us a chance to prove to the world that we are not interested only in higher mathematics.

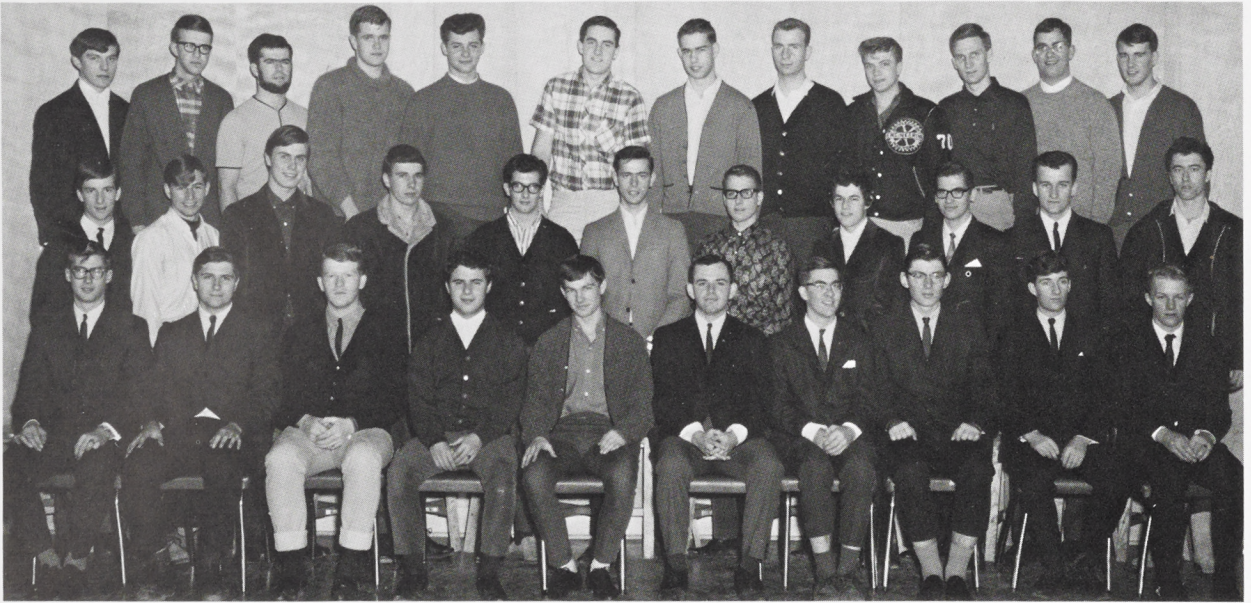
However, after the Power Prom we must get down to serious business. Card games will once again resume with its usual high participation rate and our sports participation will once again soar to new heights-about 7%. All in all, Section Four possesses much potential. A tremendous amount of spirit lies within these boys for they are all super beer-drinkers.

Fortunately there will be a high pass rate for Section Four this year. With the English course being dropped from the curriculum and an emphasis on term work, what C-jobber could possibly fail?

Yes, there were a lot of good boys in our section, but we fixed that up first term.



# SECTION 5



FRONT ROW: Grant MacWilliam, Bob Dubreuil, Walt McCallum, Bob Andrews, Pat Martin, Chris Robinson, Jim Vickers, Terry Stickney, Rick Atkins, John Metcalfe.  
SECOND ROW: Graham Hawkins, Gordon Hadaller, Garry Dlouhy, John Patyn, Gary Moore, Guy Bernuy, Murray Pitt, Andy Chimko, Allen Penner, John Kulchyski, Angus Graham.

BACK ROW: John Bachmann, Gerry Roblesky, Ken Bingham, Bob McKay, Lenny Nykoluk, Rick Scott, Harley McKellar, Dave Ling, George Gevaert, Dave Walker, Bill Mackenzie, Anthony Ashley.

Every section thinks it is the best of the six sections but, Section Five knows it is the best. It leads the field in several respects. For example, its section spirit is unequalled as shown by the 60% turnout for section pictures. Its feeling of togetherness and willingness to share with fellow members is shown by the 89% c-jobbing rate. Its scholastic abilities are overwhelming. At least 3% of Section Five passed the Calculus term test.

By far the greatest achievement attained by us this year was the destruction of the engineers' reputation of being illiterate and generally non-versed in the arts world. Well, some of the picturesque language construed

by a Section Five cardshark in the common room would amaze an arts student. If a fine artsman was to look at the decorated lockers of some of our members, he would realize that engineers really respect beauty and the finer forms in this world.

Section Five was well represented at the Freshman's Banquet and the Stag. Our volleyball and curling teams rank among the leaders. Several members play on the hockey, basketball and other inter-faculty team sports.

There isn't a finer collection of individuals to be found outside of Section Five and here is hoping each gets his beer mug.



# SECTION 6



FRONT ROW: John Schellenberg, Larry Johnston, Wayne Mault, Dave Whitehead, Randy Lwanicki, Mark Michalak, Gilles Massicotte, Dan Graham, Brian Bunzeluk, Jerry Szczur.

SECOND ROW: Larry Hubka, Walter Andrejowich, Jim Shnider, George Stewart, Dick Munn, Ken Boese, John Friesen, Erik Schmidt, Greg Huculak, Rick Prentice, Larry Muirhead, Terry Hazel, Joe Mecredie, Garry Lawrence.

THIRD ROW: John Ikonen, Gilbert Osis, Dave Zebrasky, A. Mohamid, Seymour Young, Gerald Stary, Ken Smith, Terry Brown, Rick Wisniewski, Menasche Schechter, Victor Redko, Bob Zeaton, Garry Parker, George Sorokowski, Paul Pilon, Wayne Ostapowich.

BACK ROW: Grant Wilson, Wayne De Jaegher, Dave Russell, Chester Maciorowski, Rick Hyde, Jim Duckworth, Arnold Orabyk, Craig Barnstable, Jacob Loewen, Clair Moster, Christopher Freund, Jim Cassidy, G. Hodge, Victor Wiebe.

The rise and fall of Fletcher's trolley - well, figuratively speaking anyway. Yes, we encountered that beaut of an experiment. Groan! What do they think we are? Science men (robots) or something? No, we are tomorrow's future, the fathers of our countryland.

Actually, we are quite an industrious group of guys, especially during Algebra and Chemistry. Our claim to fame in Algebra is that not one utterance of protest did we make in either of the terms this year. Who could have been bothered to disturb his slumber time? In Chemistry you would think we were aeronautical geniuses. Creativity isn't the word! I have never seen so many new elaborate designs for paper darts in my life.

Of course, as all first year engineers know, Engineering and Society is the most difficult (to attend) course on the cur-

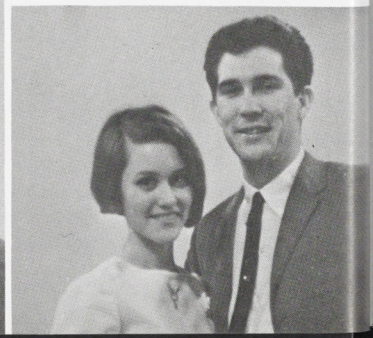
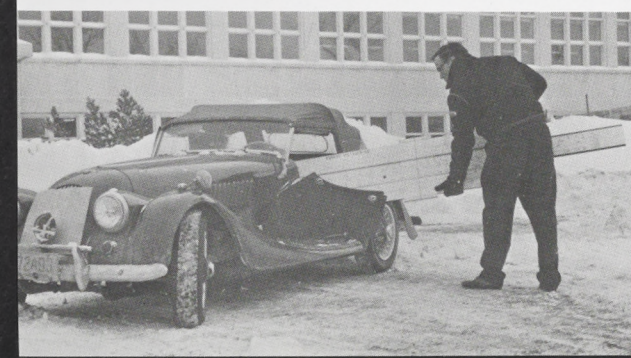
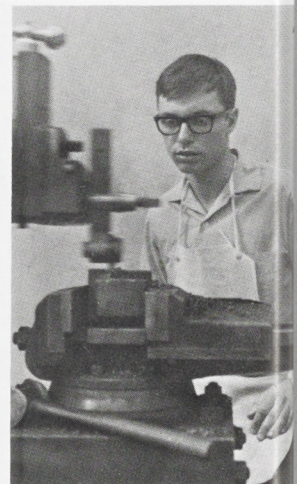
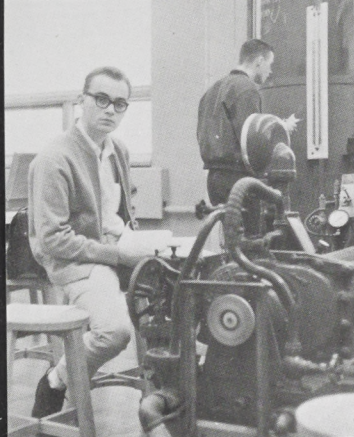
riculum. More people attended fewer classes and accomplished more work in the least amount of time than ever conceived possible. Essays, ugh.

A change of pace now as we do have a serious side to our section. UMSU 120 seems to be our strongest subject at present. How could we fail? The long term research boys very obligingly teach us the finer points of this course. Also the card tables find Section Six present and hooked. We had to show the other sections how to play sometime.

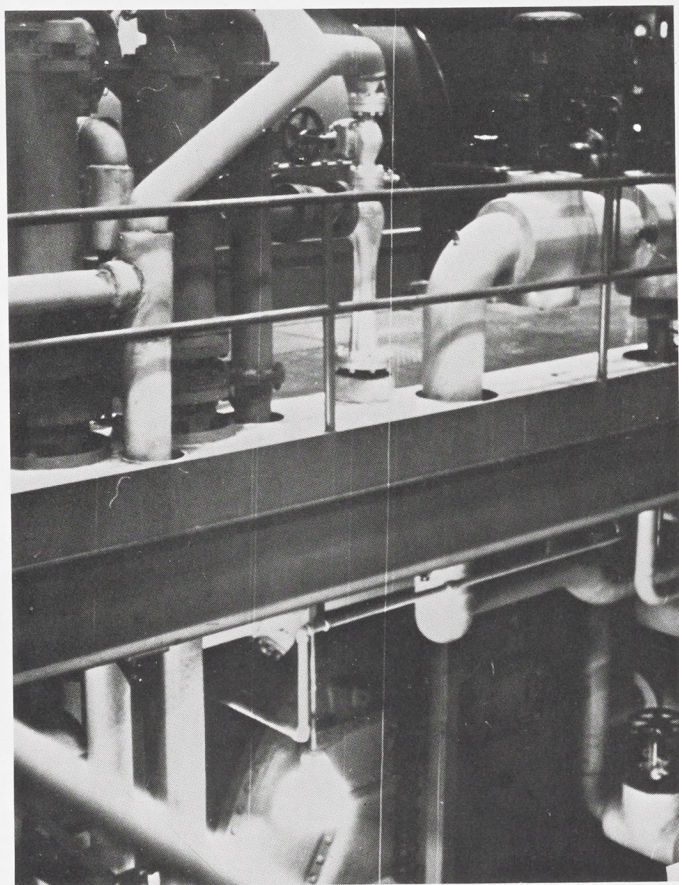
See, we do not claim to be the wildest, smartest, most alcoholic, or most studious section in engineering. Would you believe modesty? Come to think of it now most of those adjectives do fit our section but we leave it to the other sections to explain.

See you at the Power Prom.









MECHANICAL



# MECHANICAL II



FRONT: Our mascot - John Reece.

FIRST ROW: Glen Russell, Reg Hoover, Don Kostiuk, Bernie Rog, Alex Pottin, Warren Single, Eugene Wawrin, Paul Seesahai, Wayne Dilk, Allen Bodie, Fred Sherman, C. Hutchinson, Danny McDonald, G.H. Allan.

SECOND ROW: Ian Robson, Bob Eby, Ping Yu, Glen Tolhurst, Jim Partridge, Geoff Wormell, Bill Bohdan, Wayne Herrod, Wayne Tennesse, Don Pearson, Wayne Stewart, Nick Read, John Megson, Bob Moynham, D.M. Kostiuk, Lawrence Kulcystki, Trevor MacDougall, Bill Burbank.

THIRD ROW: George Mizund, Ralph Nelin, Tom Mezon, Al Goldstone, David Young, Tom Livingston, John Markmann, Brian Jonasson, Donald Dennis, Erick Richter, Don Roach, Jock McDonald, Jamie Bruce, Bruce Wilton, H. Lach, Ron Pidskalny, Cliff Zubriski, Murry Walker, H. Windsor, Rick Lawrence, Keith Kennedy, Ray Dyck, Mike Darowany, Guy Baril, R. Allan.

BACK ROW: Jim Lawrence, Bo Mikkelsen, Fred Rathje, Wayne Poole, Wayne Broughton, Peter Giesbrecht, Terry Drennan, John LeNeveu, Doug Whicker, Ken McAdam, Daryl Lowry, Romi Singh, Harold Braun, Peter West, Fred Thompson, Workman, Kent Murray, Jim Gair, Bob Benson, Len Stupak, Jerry Pachowski, Norman Newman, S. McLean.



ON TOP OF OLD SMOKEY



AMBITION PLUS!



SWEAT AND TOIL!

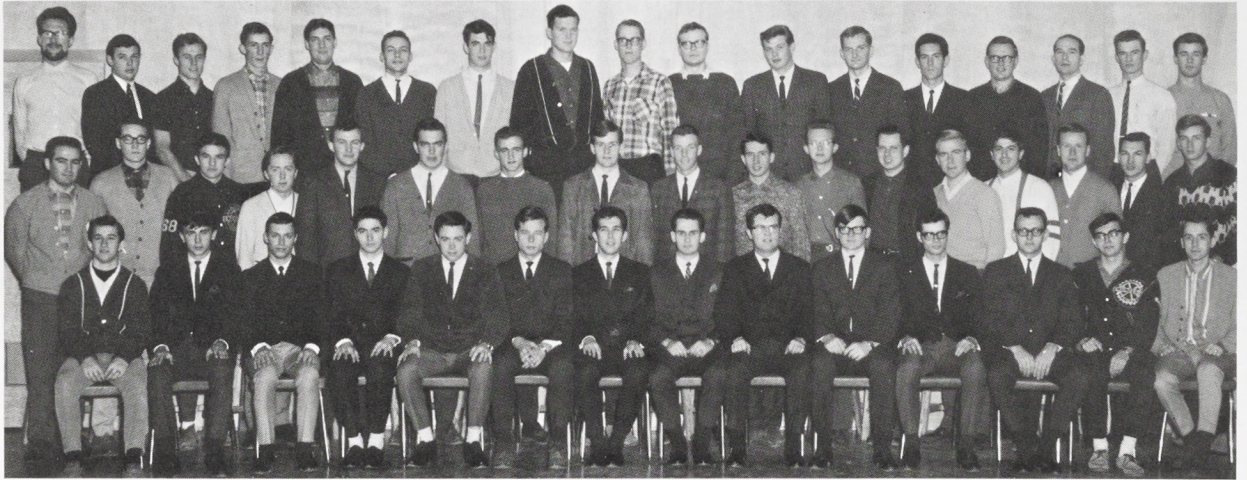


WHO ENGINEERED THIS PICTURE?

"Some people will do anything for money except work."



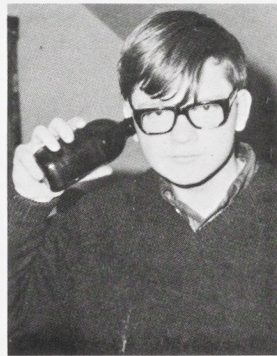
# MECHANICAL III



FRONT ROW: Daryl Zamick, Roman Diduch, Roy Dalebozik, Frank Ellis, Wayne Fraser, George Bilyk, Ron Baran, Ken Montgomery, Bob Ennis, Ron Lowe, Martin Stoffman, Bob Livingston, Dave Crocker, Dale Berry.

SECOND ROW: Dave Bodnarchuk, Robert MacMillan, Levi Friesen, Bill Reinisch, Ivan Purdy, Russ Lundsted, Harry Crawley, Barry Shineton, Bob Mitchell, George Friesen, John Booy, John Reimer, Helmut Krueger, Ken Sharp, Don Linder, Earl Perkins, Robin Bacon.

THIRD ROW: Howard Kershaw, Ron McCulloch, Gary Warner, Dave Londry, Fred Nicholson, Tom Malis, Richard Arnold, Bill Toews, John Levi, Bill McGill, Tony Bork, Bob Farish, Gerald Beaudette, Brian Topnik, Kurt Lund, Richard Waraksa, Harry Vensalaar.



3M - WHERE THE ACTION IS!



"What you are to be, you are now becoming."



# MECHANICAL GRADUATES



**GARY BROWN**

Avid cameraman. Hails from Carman. He has survived five years of residence hash although appearances are deceiving. Plays volleyball, football and is a "hotshot" badminton player. Only man in history to fail second year mechanics in April and get 100 in September. Future lies in steel with Horton.

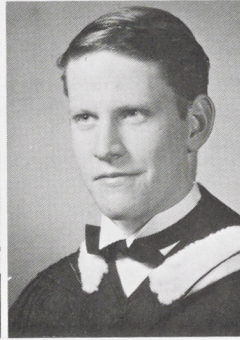
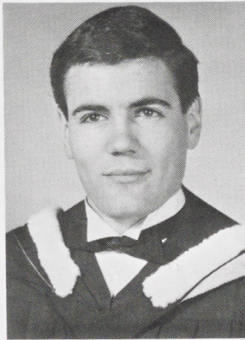


**RON BOYCHUCK**

Always at the top of the class (alphabetically that is), Ron took Engineering to get away from English and Literature. Ron is currently tied with Cameron for the most number of coffee breaks in four years. He plans to head East upon graduation, but a certain blonde has different ideas.

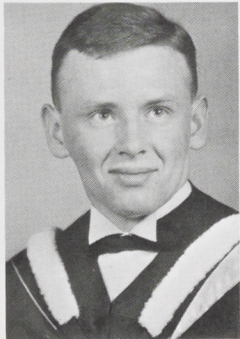
**LEIGHTON CAMERON**

Leighton never missed a single coffee break in four years. Famous for his censored creations in the Manitoban Engineering Supplement. Class wit and cartoonist. Avid believer that money is the root of all evil so he got married and has been very good since. Future with Union Carbide driving carbon posts into batteries.



**DON CARD**

An S. P. D. who is usually quiet, but a few brew lubricates his vocal cords and loosen his inhibitions. Don is pinned but still manages to get out for the odd drink (1, 3, 5, 17). He enjoys statistics classes - illustrated by the fact he laughs through every one. Future plans: undecided.

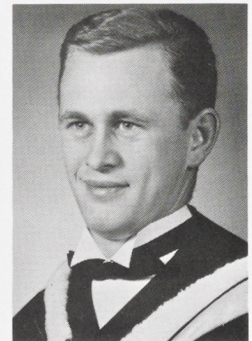


**WAYNE CUSITAR**

Wayne is the baby of the class but is still a diligent student (Monday to Friday). He is also a hobby enthusiast of the first rank; summer - motorcycles and Beth, winter - just Beth. Probable fate: working for Orenda and Beth outside of Toronto.

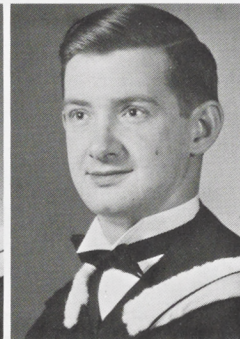
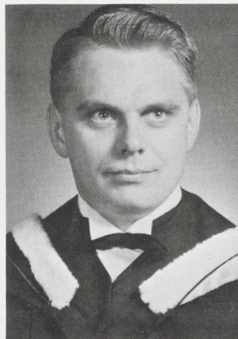
**GIL CLIFFORD**

A quiet man in class but an accomplished intellect that many people would never come to know. He is keenly interested in everything except the day before an exam. A tough competitor in the handball courts and all other sports. Gil's other hobby turned into a habit.



**RICK DAENINCK**

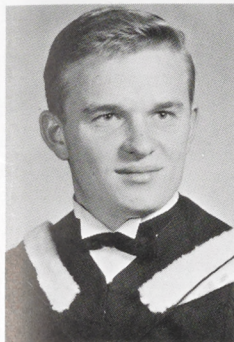
Rick's favourite saying is "Just one more, then I have to leave". This no doubt resulted from his summer spent in Hamilton. He claims to be the decision maker in the team of Joanne and Rick, but we know better. Future - Joanne (it's inevitable), and the oil industry with Shell in St. Boniface (naturally).



**MIKE CLARK**

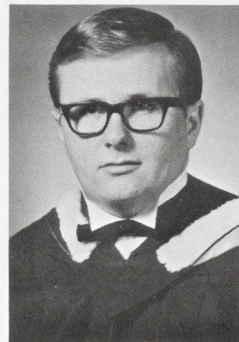
Religious leader of S. P. D. and Chairman of SEIC whose major beefs are spastic film abstracts and the Manitoba Liquor Act. Future lies with the Defense Research Board in Quebec, where he will get practice in doing forced vibration tests on Quebec A-Go-Go dancers.





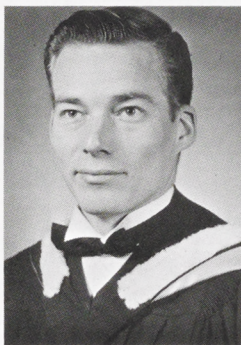
#### BRIAN DUVAL

"Duvey" comes all the way from Transcona every morning (ten minutes late). He just got engaged, but can still go to the pub once a month for an hour. Brian was quarterback of the champion 8-man football team. Future: United Aircraft in Montreal.



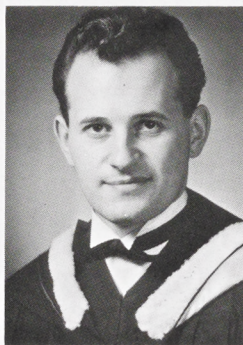
#### ED FARACI

"Eddy spaghetti" is the 4M all-star professional student. He found 4M so interesting last year he decided to take it again. He may be found with Render and Clifford on Fridays drinking in vast quantities of knowledge. His ambition is to graduate. Favourite saying "Eight more Mary"! Future lies in air-conditioning sales with Trane Co.



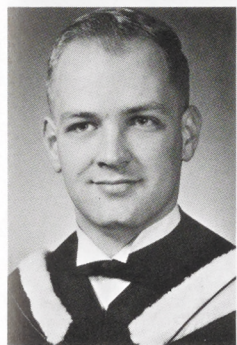
#### HERVE GAGNE

Herve has resolved to make the first class. Wonder who keeps him up all hours of the night? Thesis topic fits in beautifully with his future plans - he hopes to build a plane, fly down to Peru, and start making "Little Peruvians". This is quite a dream for a fellow from Fort Frances, Ontario?



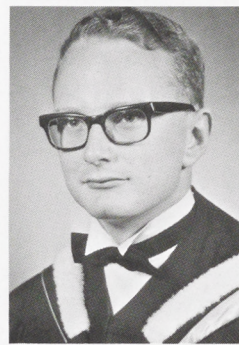
#### LEW GERSHAN

Lew couldn't get into a car pool, so he got married (his wife drives him to school everyday). Lew's wife presented him with a bundle of joy during exams last year. The big question about Lew is; can he do it two years in a row?



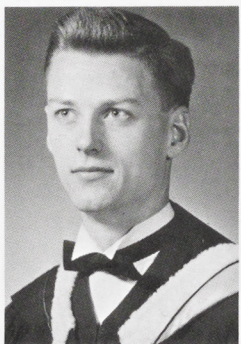
#### RALPH GIGUERE

Our social chairman.... Did you know we had a social chairman? Ralph, 4M's budding young aeronautical engineer, has forsaken the aviation industry to join the search for oil with Pan Am. Maybe it is just as well; he probably would have designed aircraft wings the way he designs sailboat masts. (They fall off.)



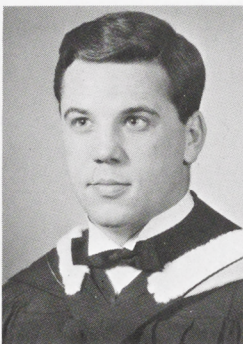
#### TERRY GOODMUNDSON

Although short and kind of dumpy, Terry manages to stand out by virtue of excellent marks and his conservative tight red mod pants. Subject to (vain) dreams of riches, he is torn between the plastic industry with DuPont and postgraduate work. A perfectionist, he is looking for an Austin 1100 with no lattice strains in the gearshift lever!



#### JOHN GREENSLADE

John switched to living on campus this year and proceeded to sleep through all his 8:30 classes (some 9:30 and 10:30 also). An ex-Navy man, John is a world traveller and class SPIRITS advisor. Seems entertaining an old Navy buddy female type) was more important than studying for Christmas exams. Future: Pan Am Petroleum, Tulsa, Okla.



#### DON HALCHUK

A Transcona Tramp who became famous at the Power Prom by telling the scrawny 220 lb. House Dick where to go. Keeps trying to convince himself that his new VW was a good buy. Takes half hour coffee breaks at 9:20 (reason well known). Claims he has complete independence but we all know better. Don hopes a job doesn't necessarily mean work. Future: unknown.



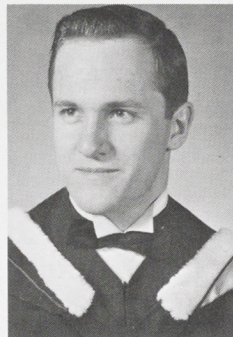


#### TERRY HORKOFF

By hard work he has progressed from Saskabush to U. of M. by way of Beausejour. Made up for numerous "8-man" fumbles by catching (?) a redhead. After graduating (dependent on getting all his third year labs marked) his future is with B. A. Oil in Calgary.

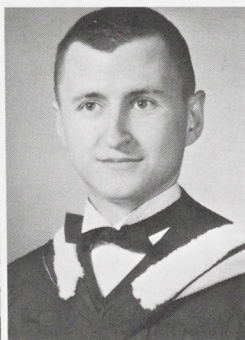
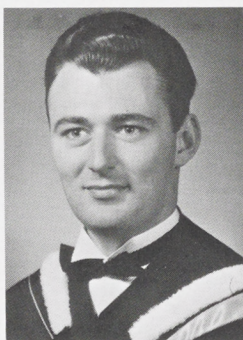
#### BRIAN HALLER

"Mother Haller" was such a good House Manager for Sigma Phi Delta that C. S. decided he could keep house for her. Until she proposed, Brian was 4 M's most eligible bachelor. Brian is not going to worry about a job until he gets an offer.



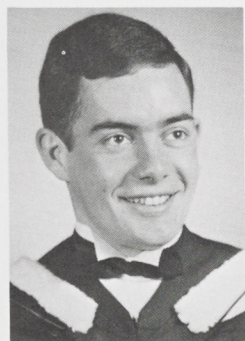
#### RALPH KING

From Victoria, Ralph is another member of the fine family of residence fellows (that survived). Besides his Pep Rally acting career, Ralph is also active in football, volleyball, and badminton. An ROTP man, he plans marriage in the spring and masters work after his voyage with the Navy.



#### BERNARD KULCZYCKI

From Winnipeg, Bernie is seldom heard from (except on tours to Brandon steam plants). Interested in automatic controls, he is the only one in the class to have his thesis completed before September 30th. Allows him more time for trips to Hadashville. Future: Abitibi Paper at Iroquois Falls.

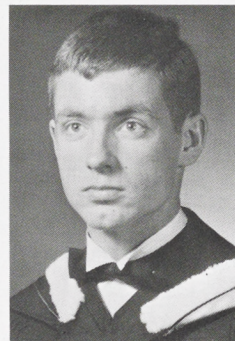


#### ALLAN LILLIES

Aside from his studies Al finds time for various activities such as curling, cross-country racing, skating, hunting and seminars at the big M. Last fall Al mistook himself for a deer and very accurately put an arrow into his leg. Al comes from Balmoral and plans to migrate to Western Canada after graduation.

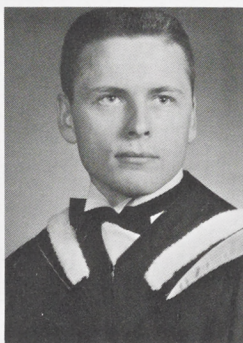
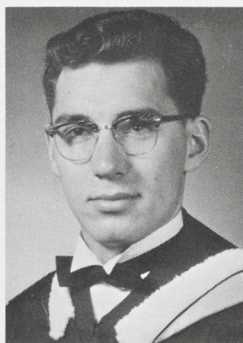
#### PETER LARKWORTHY

Pete "nature boy" Larkworthy is the only one on campus to come to class in 50 below weather wearing a tee shirt and canoe shoes. A maniac of a driver he claims his Austin will beat anything on wheels. Probable future: Grinding cement clinkers in Fort Whyte.



#### BILL LITVINCHUK

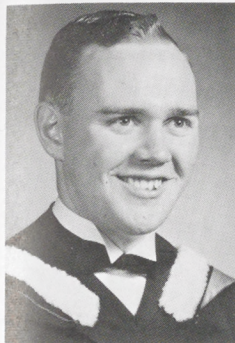
The guy in class whose keenness and track training seem to gradually disappear because of the appearance of the "little woman" who wields a big rock. The teaching profession seems to hold Bill's future location in the balance, so it's Winnipeg with Shell.



#### DAVE McKIBBIN

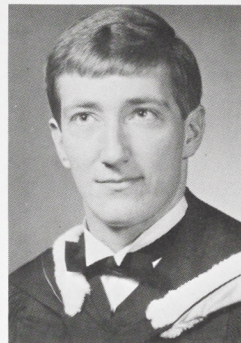
It has often been said that a sailor has a girl in every port ... Other interests include most sports, sleeping, Expo etc. Has indicated he will probably work if he gets an offer! No ambition; wants to stay in Winnipeg. Conservative by nature, his gold plated Valiant will probably not have a bar.





#### KEN PEAKE

From Hartney, "Cowboy" Ken is active in many fields (football, curling, hockey, Hallowe'en Parties, Montcalm). His favourite saying is still "There's just no way that'll happen", but we know she has other ideas. Future: Pan American Petroleum in Edmonton

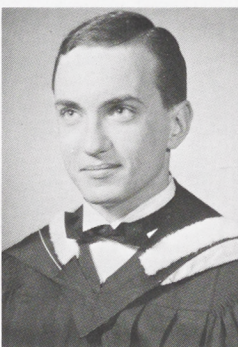
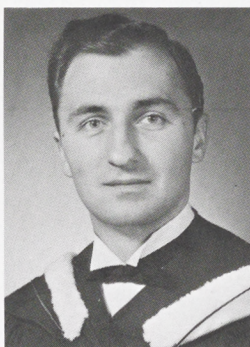


#### STAN PEARCE

Strictly an 8 to 5 man (P. M. to A. M.), a member of Phi Kappa Pi frat, who is active in football, curling and "other things". Stan plans to work for DuPont so he can replace the nylons he ruins during his "other" extracurricular activities. Has his sights set on an M. B. A. in the future.

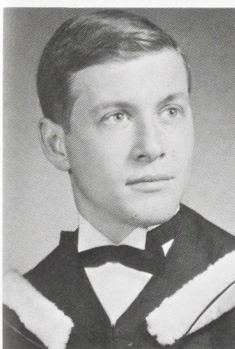
#### DENNIS PENNER

From Winkler, Manitoba. Dennis never did learn that labs were made to be C-jobbed. His trumpet was never bad enough to make the Engineering band, although he did keep up the Engineering name in 8-man, hockey, and basketball. Dennis, like most of the 4M class, disbelieves in bachelors with iron rings.



#### KEN PUCKALL

Ken is the only man in the class who can test a backward-curved fan and then prove it is forward-curved. He can usually be found somewhere on the highway between Winnipeg and Pinawa or at the SPD house looking for references. Pet Peeve: being run over in his Alpine.

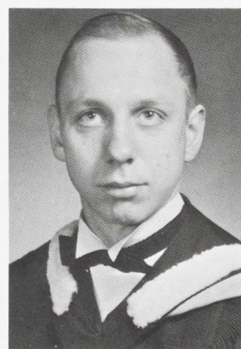


#### DOUG RENDER

Doug (The Red Baron) walked away with top honours in the hurling event at the Engineering Stag. After graduation Doug plans to take a four month tour to Europe with possible guest lecturing engagements at universities on the continent on his post-graduate topic of "Electricity and Magnetism".

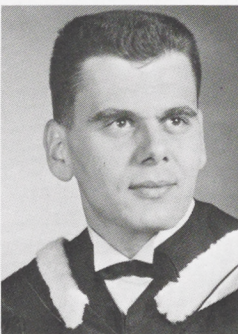
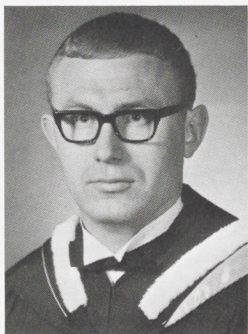
#### GARRY SCHWARZ

Graysville kid and another full time residence student. Saw the light after second year and took Mechanical instead of Electrical. Headed for post-graduate work in a few years and to Pinawa in the meantime.



#### DAN SERNYK

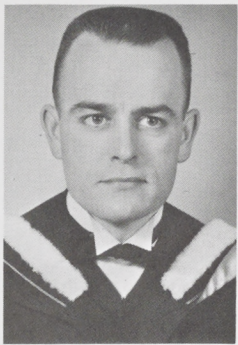
Dan has participated in every sport that has ever come to Manitoba, and then some. It has been said that he has more athletic points to his credit than aggregate marks, but this is only a rumour. Dan keeps in top shape by playing his violin, and hopes to stay in Winnipeg after graduation.



#### GERRY SLUSAR

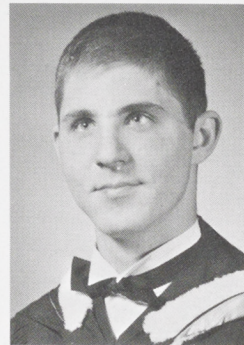
One of the "old men" of 4M, Gerry is well known for his sage advice to the "youngsters" in the class. He is one of the insane few going on for his Masters but not before a trip to Europe this summer (which won't be as much fun this time with the wife along).





#### BARRY SOLNES

Originally from Dominion City, Barry's life in the big city is extremely busy. Barry's constant struggle is to suitably balance his time between playing hockey, editing the "Slide Rule", Student Council, his thesis, his wife, and finally his studies. Wouldn't you know, he has been most successful in budgeting his spare time with his wife. Future: Pan Am Petroleum.

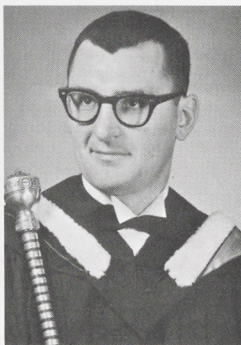
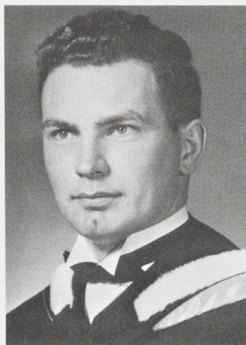


#### STEVE SPICOLUK

One of the SPD boys who resides in the attic of the frat house. A Winnieperger at heart but says he is going east where a man can ride his Honda the year round. He is one of the few single, sober and sombre frat men around these days. Future: DuPont in Kingston.

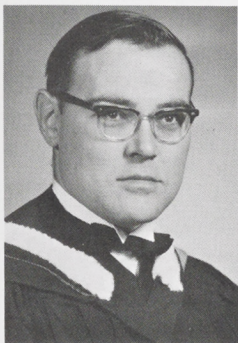
#### TIM STOREY

Tim is a wild Lakehead man. His main interests are curling, women (he is the smoothest posterior pincher in 4M) and the big M; although not necessarily in that order. Future plans: working for Abitibi at the Lakehead.



#### WALLY STRUTT

Only married Senior Stick and Athlone Fellow in the class. Decided to enter Engineering to avoid his high income tax bracket. Hopes his reason for his not studying for third year finals will not come back from England with an accent. Future: plans to form a firm of plumbing consultants.

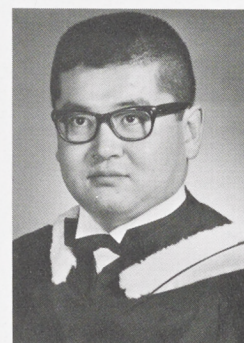


#### BILL SULLIVAN

Old married man and proud owner of the biggest stomach in 4M. Bill's philosophy is, if you have good equipment, you have to keep a roof over it. A likeable fellow always, except on St. Patrick's Day. Didn't want to work for his wife at Imperial, so joined Manitoba Bridge.

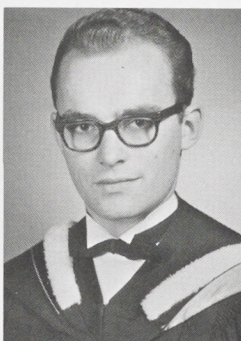
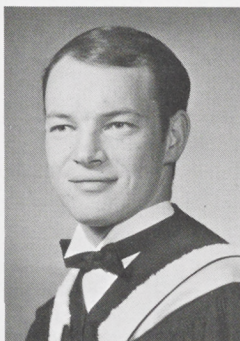
#### SHO TAKASUGI

Has a hard time making it all the way over from University College. The wheelbarrow he needs to carry his slide rule must be too heavy. Future lies with Mitsui Industries in Vancouver, making ten times what he could in Japan.



#### MORLEY WALKDEN

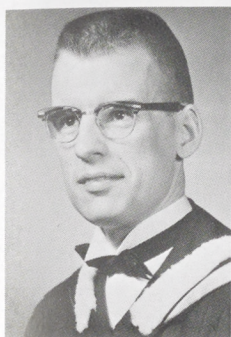
Spent most of his time down at the SPD house hiding from Ruth. He's the guy who always got the slack job during labs. Expended all his energy collecting empty beer bottles to muster enough cash (and nerve) to buy a diamond. Has finally succeeded. Lifetime future: deciding which job offer to accept.



#### GARRY WATSON

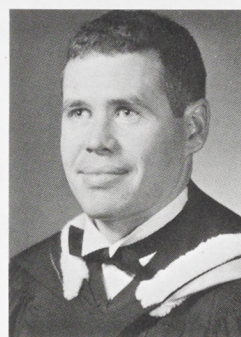
Garry got a rotten ice cube at Brandon and suffered from a bad case of heartburn on the return trip. He is active in sports and hasn't missed a coffee break in four years. Future plans are with United Aircraft where he will head the design of the nine cylinder radial engine for DC - 8's.





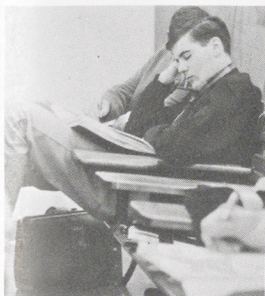
JIM WIEBE

Jim is a good student, who four years ago came from Morden and has been working hard ever since. Neither Montcalm nor stag was successful in drawing his attentions. His present ambition is to become the chief engineer of Stelco as soon as possible.

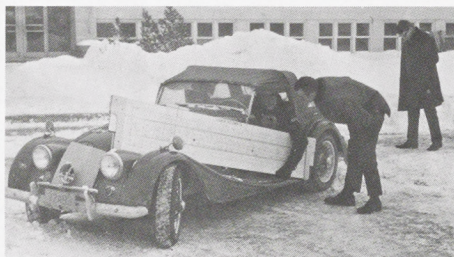


DON WRIGHT

4M's chief cynic and the not too proud owner of a '51 Impala, screams in every morning from St. James. Don likes the salmon fishing in B.C., But figures Seattle will bring on a Corvette sooner. His future with Boeing should be a smashing success.



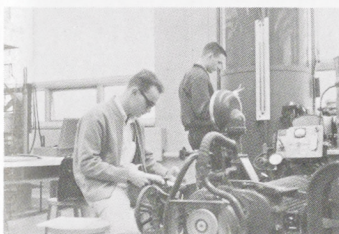
Ain't married life tough?



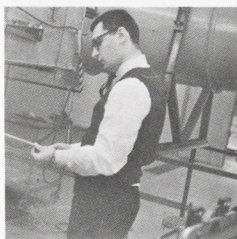
Guess where I keep my pen!



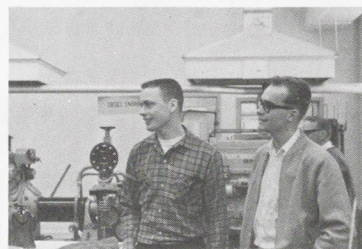
Where's Channel 12?



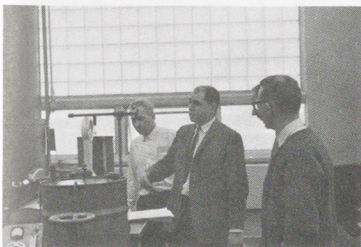
Not the usual anti-keen.



Penny for your fan?



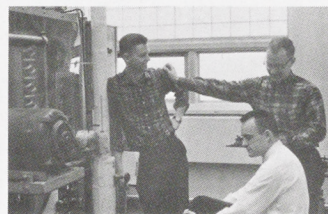
Hey? The camera is over here!



Watch for the backhand Horst!



You tell him Bernie!



It's a rough life!

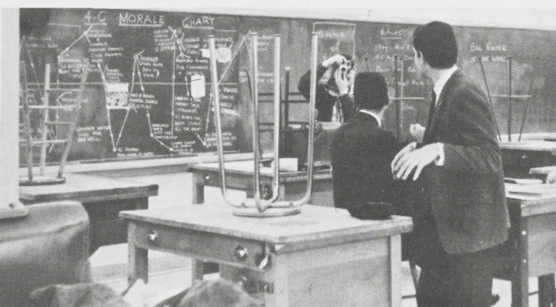
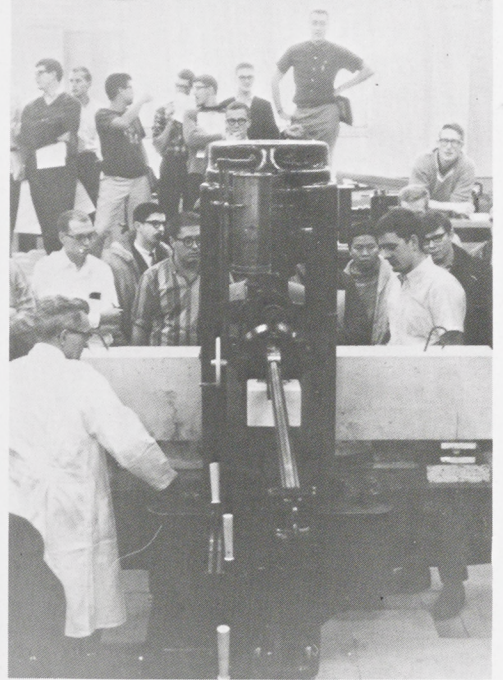
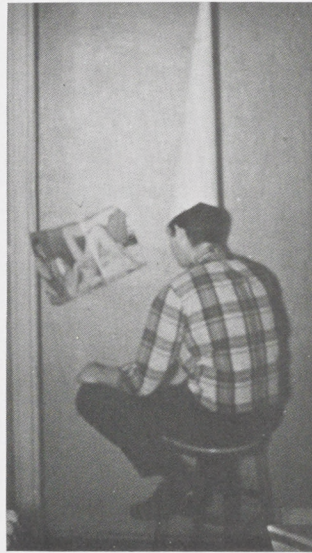
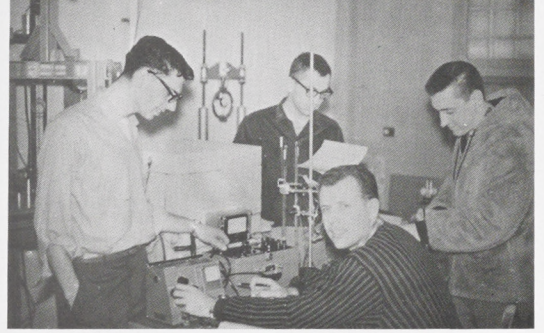


Damn near pure alcohol!

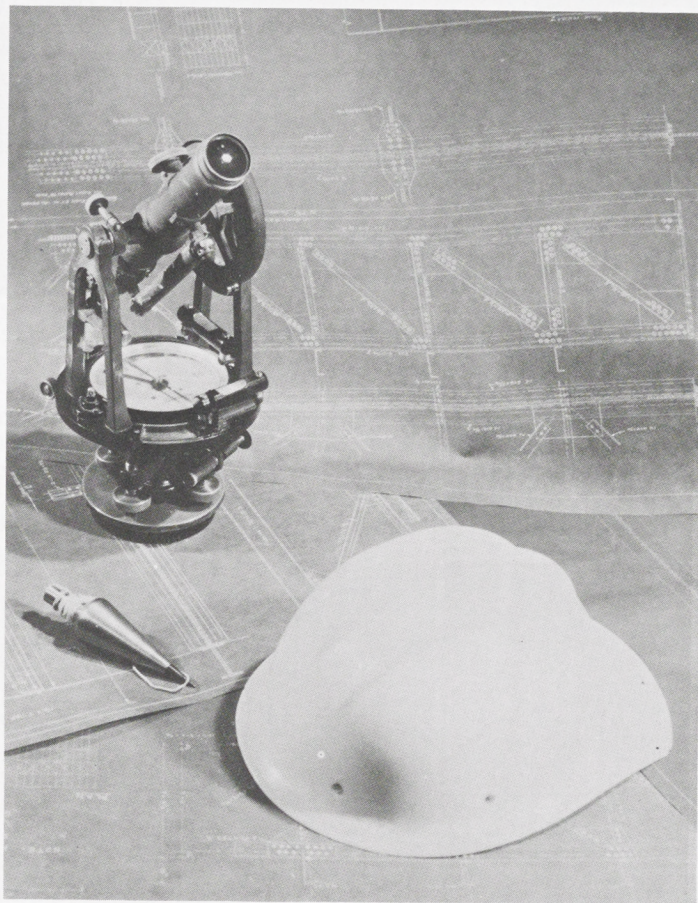


Is he dead yet?









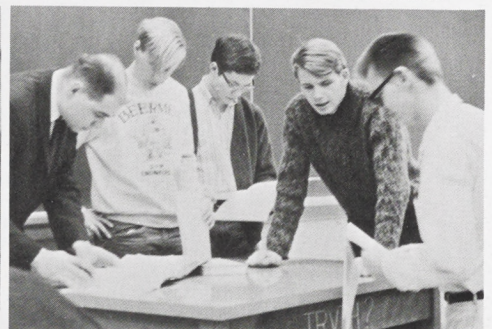
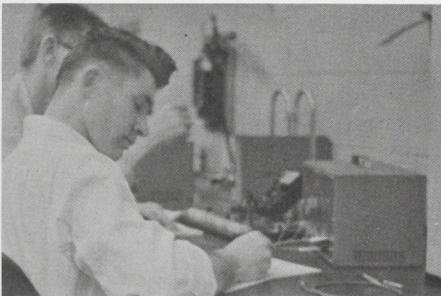
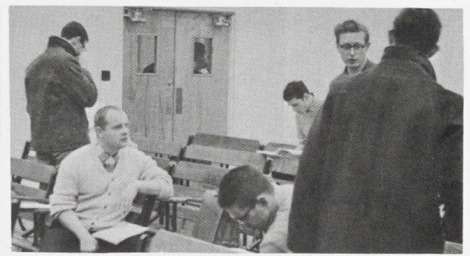
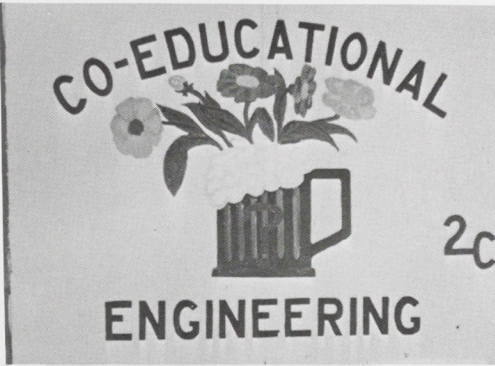
CIVIL



# CIVIL II



FRONT ROW: M. Bernier, B. Boucher, T. Kuluk, J. Warren, B. Lawrence, R. Horsman, G. Caughell, P. Borowski, V. Tanner, R. Litz.  
 SECOND ROW: B. Dreger, M. Motaluk, D. Rivals, Barbara Lund, J. Bell, R. Edghill, A. Lewko, C. Macleod, R. Godse, S. Odut, M. Sydor.  
 THIRD ROW: B. Haglund, R. Huggins, J. Way, B. Rachwalski, D. Beare, J. Le Maistre, J. Nichol, R. Prochera, S. Lee, L. Ulicki, D. Benzies, P. Janzen, T. Collyer.  
 BACK ROW: W. Killoran, B. Chudy, R. Thiele, B. Puttee, L. Porosky, K. Kotyk, M. Harrop, A. Edghill, R. Muir, K. Hogg, K. Baley, J. Gottfried, P. Johns, B. Johnson.



"Ideas die quickly in some heads because they cannot stand solitary confinement."



# CIVIL III

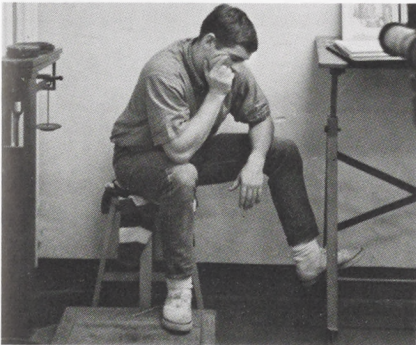


FRONT ROW: Bill Kong, John Towle, Jim Peterson, Bob Marshall, Mike Kenny, Jim McLean, Jim Buchanan, Rick McKay, Mike McDonald, Basil Dias, Vincent Liu, Guy Arnott, Doug Holmes, Roy Nichol.

MIDDLE ROW: John Denoon, Barry Millar, Jim Barlishen, Brian Mitchell, Jerry Jankiewicz, Lloyd Cohen, Ed Ring, Erwin Breu, Barry Hartry, Tim Stratton, Gordon Smith, Marc Pelletier, Ken Barnett, Wayne Lee.

BACK ROW: Brian Abrahamson, Al Wilson, Ron Slater, Bruce Piercy, Andy Pele, Norm Wiwcharuk, Larry Whitney, John Wiens, Garry Maxwell, Ed Klemm, Dave Stirling, Russ Grant, Don Bortoluzzi, Brian Bowes.

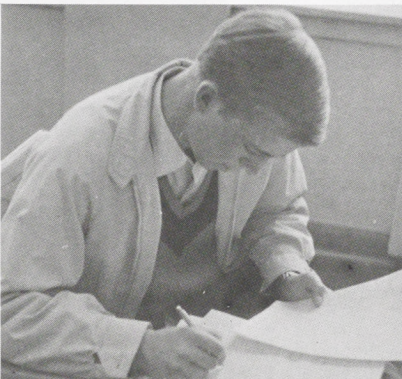
MISSING: Bill Barritt, Bruce Bower, Norman Brandson, Al Brown, Rod Bulloch, Derek DeGraff, Kerry Hill, Roy Holstein, Jim Jackson, Fred Kemp, Mike Kondra, Art MacDougall, Elmo Glurg, Carl Pentitchuk.



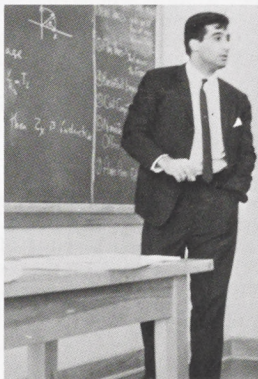
THE THINKER



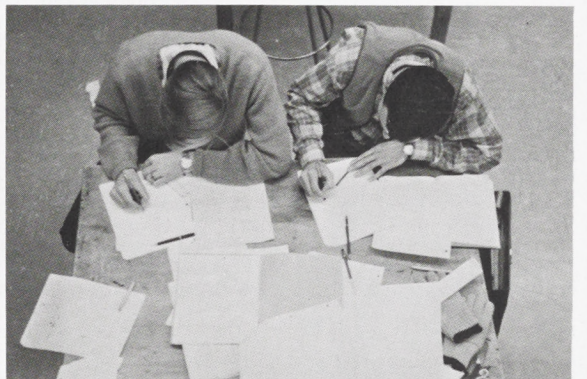
HEY! CHECK THOSE LEGS! DO YOU WANNA KNOW A SECRET?



WHAT? ME C-JOB?



CORNER BANK!

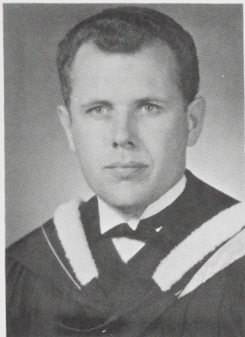


LOVE THOSE M. E. LABS!

"None but a fool is always right."

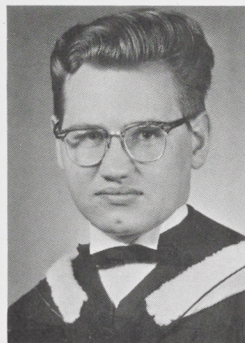


# CIVIL GRADUATES



**BERNARD AMOS**

Bernie is the veteran of Civil, having spent 6 years in the RCAF prior to enrolling in Engineering. He made the Morale Chart with a "peach". Bernie is married with one son, a dog and a Centennial Project. Still claims he is younger than Dave Tyerman.



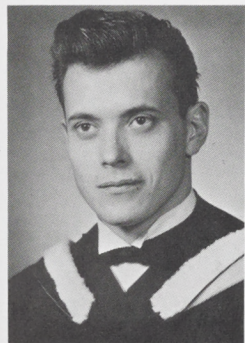
**BRIAN BODNARUK**

Brian, more commonly known to friends as "Boob", is a very quiet and conscientious student. His main ambition is to attain perfection. Never engages in social activities, especially when members of the opposite sex are involved, and will take a fit whenever Montreal Canadiens lose a hockey game.



**RICK BORLAND**

Rick, the 4C unemotional curler, made the Morale Chart by getting engaged to the "Big Green". Active in University tennis and curling, and also the best spiker on 4C's number one volleyball team. He plans to work for Metro with an eye to taking a Masters in Traffic Engineering.

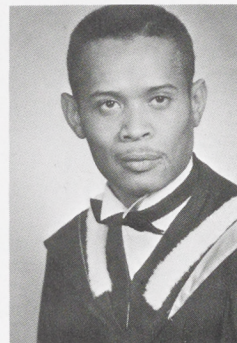


**ERNEST CARRIERE**

Last year Ernie said he'd be laughing if he reached fourth year. Boy, did he ever make it! And to celebrate the occasion, he got married. Already off to a good family start, he is now thinking seriously of a career in production management.

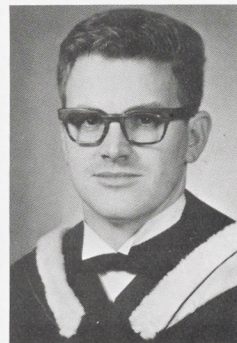
**LESLIE BATSON**

Les is one of the happier fellows of 4C. He can always be found smiling, and usually with a sandwich in his hand (yet he never seems to gain a pound). Les hopes to be a "great" structural engineer and nothing can stop him now - excluding exams of course.



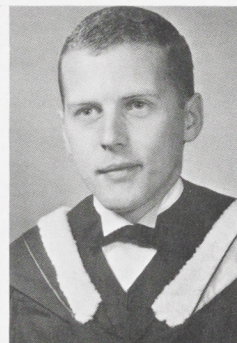
**KEN BUHR**

Ken can usually be heard during Smilie's class. He spends most of his time on the "Yellow Pumpkin" and between trips manages to say hello to Lou-Anne. He changed this by moving next door. Ken's Centennial project is to get married in July. We wish him the best of luck in his career with Man. Govt. Soils Dept. doing dyke stabilities on the Red River.

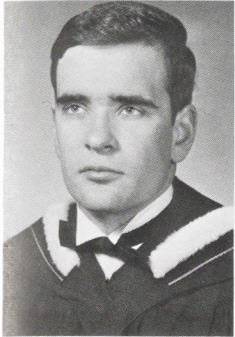


**BRUCE CLAPHAM**

Bruce is a quiet, hard working, very likeable fellow. He won 18 curling trophies over which he maintains 24 hour guard. Other athletic endeavours include strong showings in boat races at the Stag. A Phi Kap who constantly practises karate on Donald. Municipal Engineering and marriage to Pat ensure a successful future.





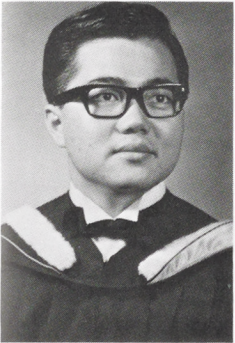


DAVE DONALD

Dave is one of the quietest and best liked members of 4C. He caught pneumonia to avoid giving his bridge seminar. Activities include Phi Kappa Pi fraternity, curling and membership in the Friday "M" Club. Dave's ambitions and personality will ensure him a successful career, possibly with Shell Oil.

KEN COOPER

Ask anyone in 4C and they'll tell you how "Coop" always manages to electrify the crowd. Whether it's organizing our activities as Class Prexy or arranging Engineering's bashes as Social Chairman, he always seems to be on the fly. A member of Delta Upsilon fraternity, and the "high" scoring end for the championship 8-man football team, his future probably lies with Domtar or anyone else who offers a better car.

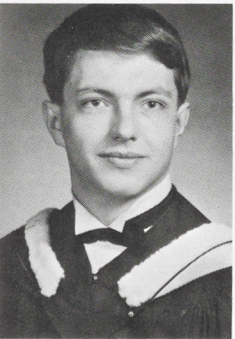


JOHN FRYE

Has worn a sweater since the first day of first year. Drives "George's" car all over town and claims, "Why not, it'll be mine in August anyway". Discusses in class with Henderson the previous night's curling loss. Participates in golf, flag football, volleyball, and of course, curling. Probable future: Designing a rivet joint for Dominion Bridge.

BEN FAN

Buddy of all, Ben is always ready to clear up any points, especially in Structural subjects. His stomach-aches keep him away from the pub where he is often remembered because of his high-standing.



SAUL FREITAG

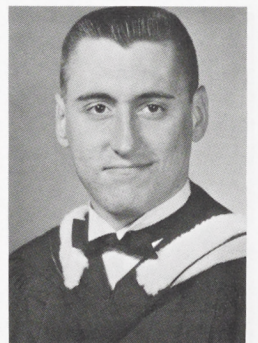
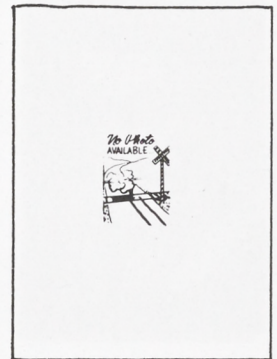
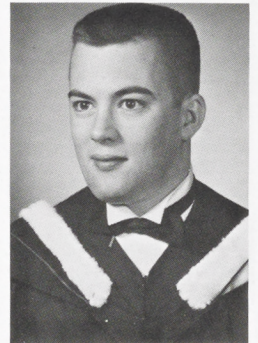
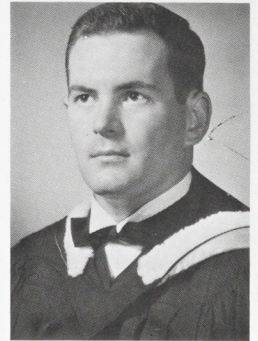
One of the few foot - loose and fancy - free guys who owns a sports car. Well known for his Mod dress and beard, which constantly amazes the class. Ambition: To work bankers' hours. Future: Return to U of M for Economics classes.

PAUL FLATT

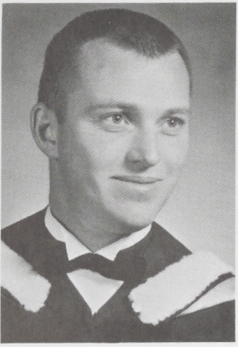
Generally, Paul can be found sleeping in class. Always looks like he just got up. His interests include his guitar, TKE, Sewage Design and gin, not necessarily in that order. He plans to work for the Manitoba Govt., and with some pushing, to take his Masters next year.

BRIAN GIBSON

The greatest athletic supporter in the Faculty (Athletic President), the "Gibber" plans to get married in May and pursue a career of job interviews. Winnipeg Enterprises seemed interested in him, but a conflict soon developed. A member of the Deke fraternity, he is also a charter member of the 4C Social Club.

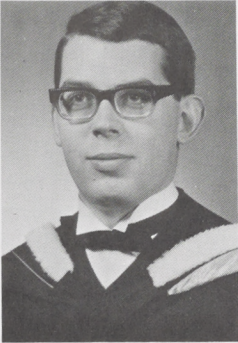






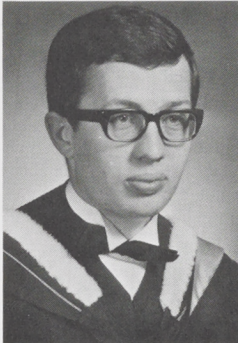
#### BOB HEMPSTOCK

Farmer Bob is another of 4C's young marrieds - may not be for long if his "luck" holds out at the annual stags. Undisputed card King of 4C, he gets his best marks in bridge seminars. Active in all projects - stags, field trips, parties, and some other athletic activities. Probable future in the oil industry looking for new chemicals to grow better crops.



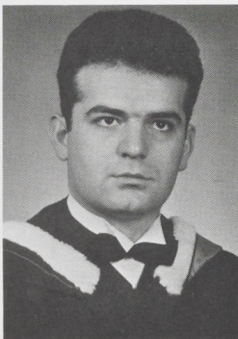
#### DON HENDERSON

Don is one of the quiet, conscientious, hard working members of the class. Interests include curling (skip of the runner up in the car bonspiel), golfing (con-venor for Engineering), and taking pictures (?) at class parties. Don sports a '67 Beaumont to promote social activities. Future undecided, possibly post-grad work.



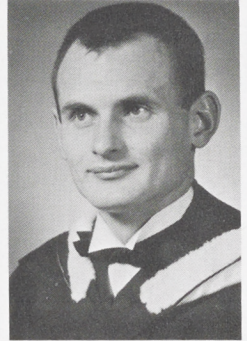
#### RICHARD KEELER

Always has his briefcase stocked with structural books. A Member of S. P. D. fraternity, Rick enjoys a few to wash down lunch and talk things over with the boys. Future? "Work I'm not sure about, but definitely a Mustang".



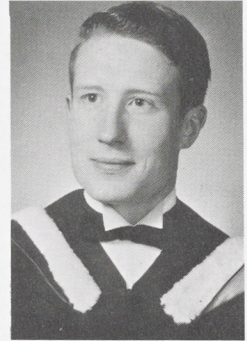
#### DEMETRIOS KONTZAMANIS

The big "G", better known as the "tear-er" of the soils lab, claims he will be the first Greek to graduate from Manitoba in Civil. Demetrios is interested in structures and hopes to go into P. G.



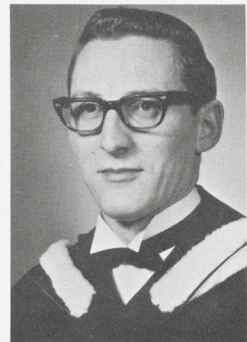
#### RONALD HUSACK

"Hoos", as most of his friends call him, is the original founder of the "M" Club and has done his best to keep it intact for the last eight years of University life. Upon graduating, he plans to continue the club in Edmonton with Longo as his associate.



#### BOB KEITH

Bob comes from Carman, but seems to spend most weekends in the city. He is active in both residence and intramural hockey and flag football. Bob must be preparing himself for marriage as he has been eating residence food for the past four long years. Future lies with Pan American Petroleum.



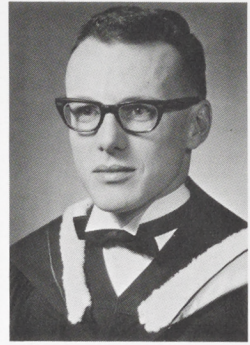
#### DINO LONGO

Dino manages to spend most of his time in UMSU. He seldom attends classes, preferring to spend the lectures in UMSU or the Montcalm, except the Sewage lectures which he never missed. Future: Construction Engineer with the Alberta Department of Highways.



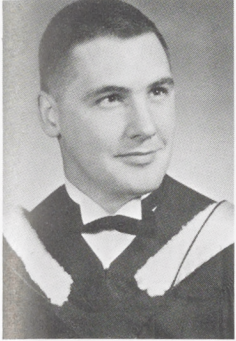
**JIM MITCHELL**

"Mitch" is a native of East Kildonan. He likes sports - especially indoors. He is a member of the S. P. D.'s and is famous for his great talent as a boat racer. After graduation, Jim plans to start his career with Ontario Hydro in Toronto.



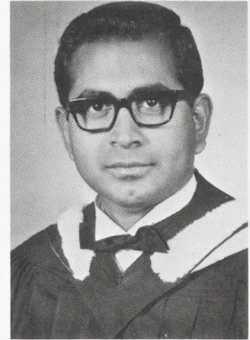
**SHELDON LOWE**

Sheldon can always be seen working in the 4C lab. Doreen, a school teacher, became his fiancée early in the New Year to rate as his first Centennial Project. As a pastime he enjoys square dancing and will start his career with the Government of Alberta's Water Resources Branch.



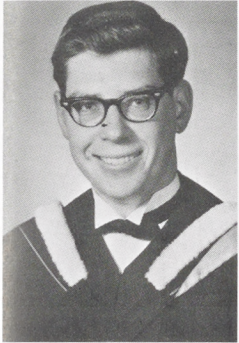
**TAM MOHAMMED**

Tam, one of our most outgoing students, has been known to show up for an occasional class, but rarely the first one. Politically inspired to promote changes in almost anything, Tam has held positions in UMES and is active in UMSU activities. Wardrop and Associates could pave his road to riches.



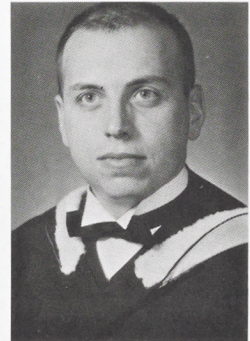
**BRIAN MORRISON**

The Big "M" hails from Carman and is well known for his curling prowess, drinking, and top marks. After turning down a position at the sewage treatment plant in Carman, he will probably become the chief rock inspector for the Pembina Curling Club. His future also includes postgraduate studies in Water Resources.



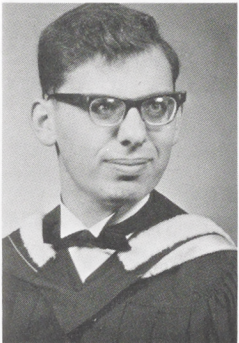
**LES MORRIS**

Les comes from MacDonald and someday hopes to re-open the World War II airport there. He no longer needs a blind date for the Power Prom as the first one is trying to "alter" his future plans. However, Les will probably work for Manitoba Hydro, with the Eskimos, upon graduation.



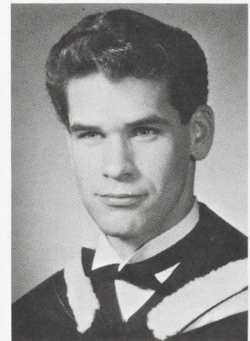
**LEN PODHEISER**

Len is one of the friendliest fellows of the class and always has a joke ready. Made the Morale Chart when he lost a nickel bet with Frye. Len hopes to find a soils job so he can set the foundation for his financial empire. Convocation? No doubt about it.

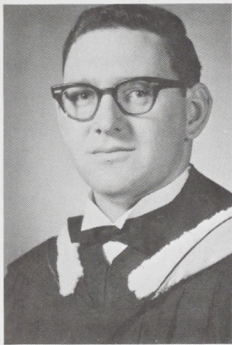


**BRUCE NICOLSON**

A typical student who drives a new car every year. He is an avid curler who had the misfortune to get on Hempstock's rink. But he doesn't let it affect his studies, as shown by his good marks. He is probably the only person who can "work" in the 4C lab on a Friday afternoon.

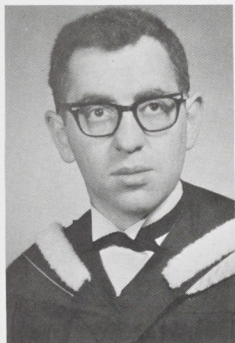






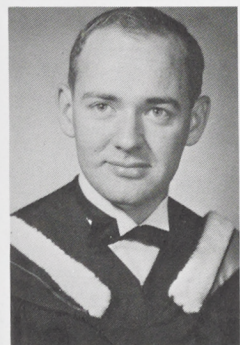
#### KURT SAWATZKY

Engagement rings and new cars have been a part of Kurt's grad year. Because of the marital instructions he has been getting from Henderson all year, the 4C's were very much relieved to hear Frieda is a nurse in the maternity ward at the General. Kurt participates in hockey, football, and volleyball.



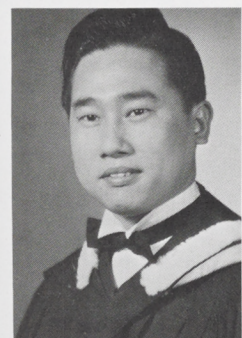
#### ED SHINEWALD

As the UMES debating chairman and class intellectual, Ed is often involved in the stirring daily debates in Room 307. Ed's future lies in world travel, Tommy Douglas's cabinet or driving his convertible whenever his wife lets him. Immediate future is with Metro, probable fate counting traffic at Portage and Main.



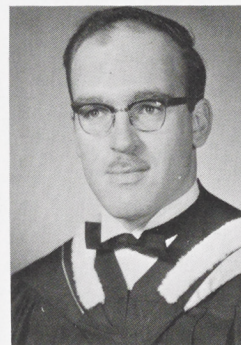
#### TED TRUMAN

Ted is UMSU Rep this year, "Vice" - Stick and a leader of the class protest group, when he is able to be there. "Poor taste" firmly believes "life can be beautiful" - if lived in B.C. (either North or South). Ted was undisputed expert on the McPherson Royal Commission. Too bad it wasn't on the exam, Ted. Possible future: Not likely, but possible.



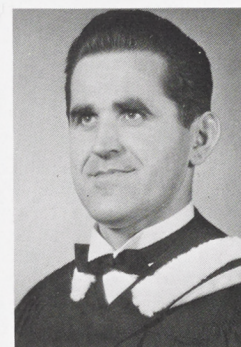
#### TEK - KHOEN TSENG

Mr. Tseng came to us from Indonesia at the start of third year. He was completely astonished when he saw his first snowfall. After he has worked in Canada for two years, he plans to return to his native country to start a construction business.



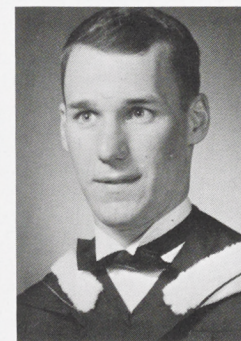
#### JACK SCHREUDER

Jack is one of the most mature persons of 4C. Although slightly on the conservative side, he still manages to have a good sense of humour. Jack enjoys the finer things in life such as drinking a martini while taking a steam bath. What a life!



#### MIKE SIMIC

Mike hailed from beautiful Venezuela. Known for his daily ritual of "Siesta in the Lab". Expert in C. B. R. - Caribbean "Baring Ratio". Future: Beach engineering in the Caribbean, on the look-out for senioritas with the highest "Baring Ratio".



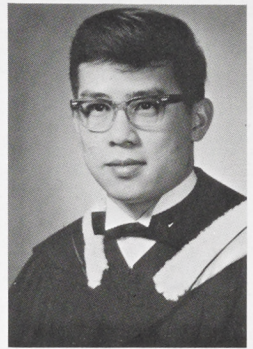
#### AL STEPHEN

Al is from the West End, is a member of S. P. D. fraternity and is proficient at bridge, soccer and hockey (UMES Convenor). Al also finds time to take the odd chick out and bend the odd elbow. Ambition: To wear a cap and gown in May and then work for D. C. L.



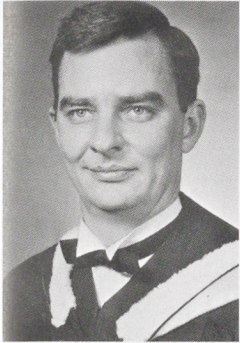
#### HOWIE WONG

"Mr. Everything" is one of the 4C's who has given up Vancouver's sunny climate for Manitoba. Howie is good in all team sports and has many trophies to prove it. He manages to attend classes in his spare time. Another four year residence "victim", he holds a standing record of having ordered pizza on 1,361 consecutive nights.



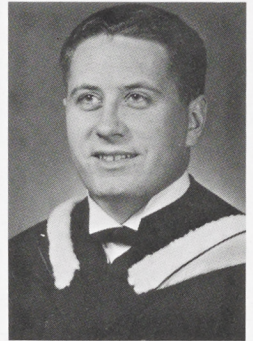
#### DAVE TYERMAN

Dave, one of the older members of the class (so Bernie says), sets the perfect example as a semi-keen student. Dave is a family man with two girls and a lovely wife. The whole family knows how to throw a real great party. His future is probably in structural design experimenting on two-way stretch lycra bras.



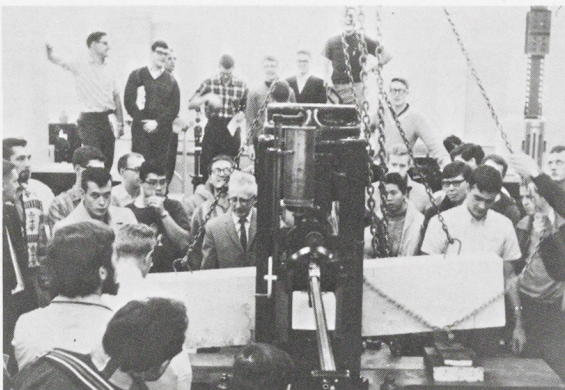
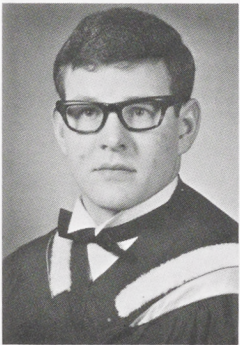
#### BRIAN WOOD

Woody came 5th in class last year and is heading towards his structural masters. He coached the 8-man championship football team, was involved in numerous other sports, and still found time to get married. Now his only problem is starting his Volkswagen.

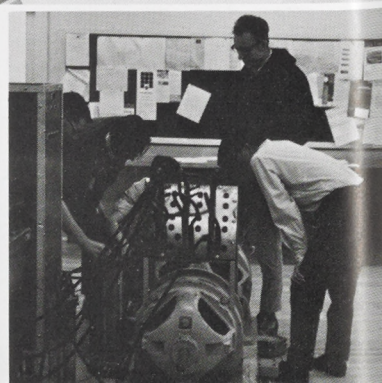
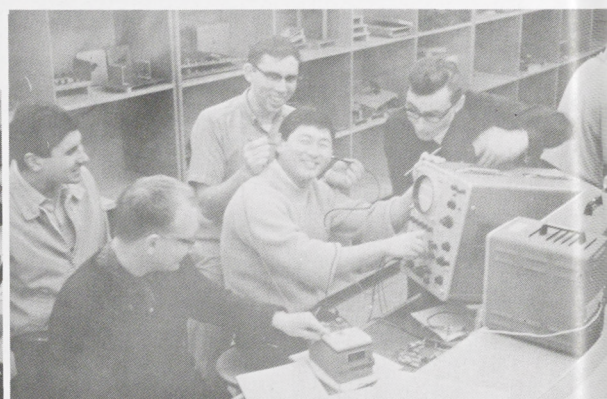
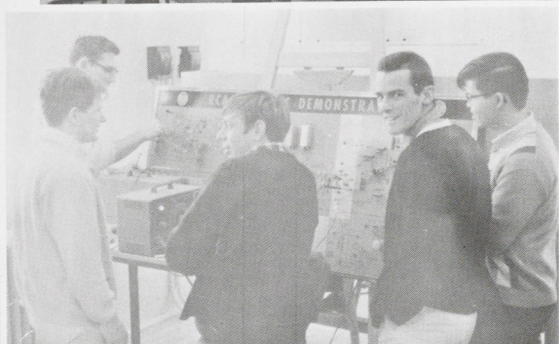
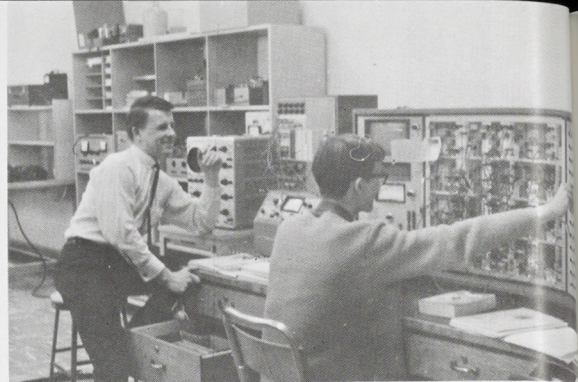


#### BOB WETTTLAUER

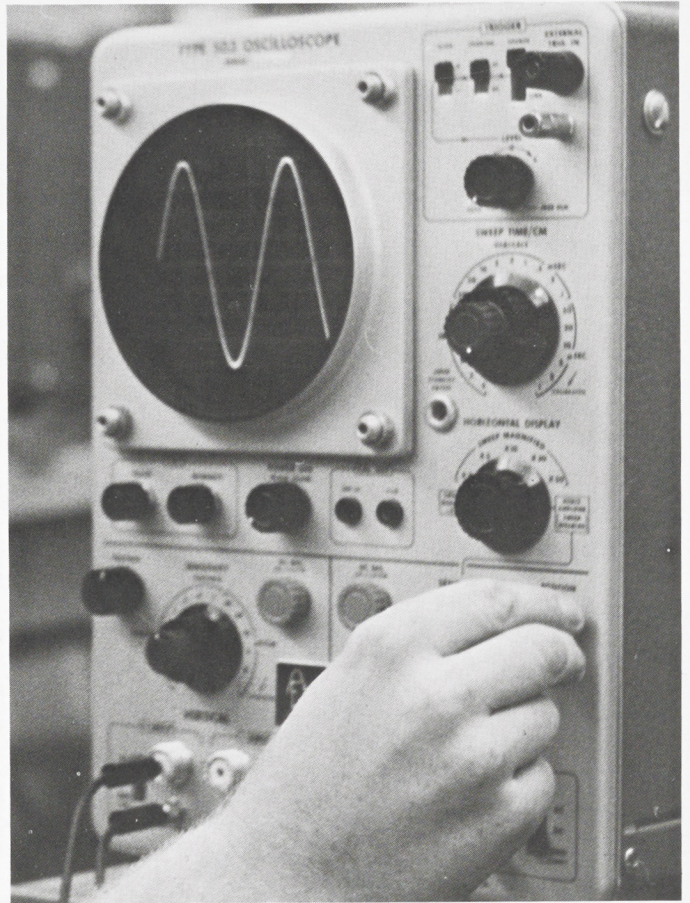
Bob was the disappointment of 4C when he didn't get engaged at Christmas. He is a member of TKE fraternity, although, we never saw his pin. Bob plans to take his Masters in Water Resources Planning and then there's some hope for Knute.







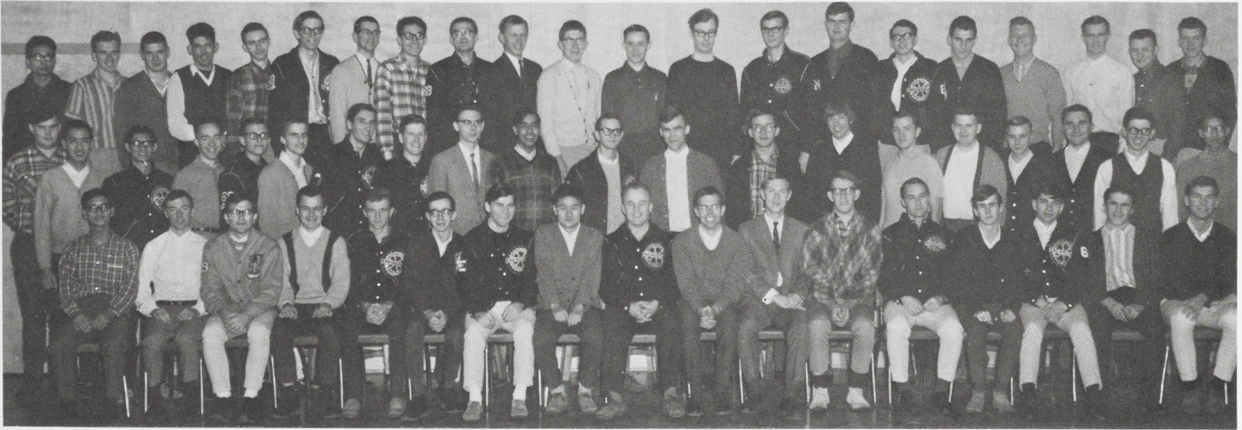




**ELECTRICAL**



# ELECTRICAL II

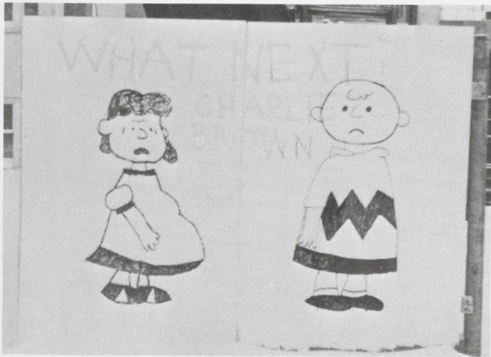


FRONT ROW: P. Liu, D. Anderson, D. Ewchuk, D. Kozier, G. Tinkler, W. Bonnett, S. Nowak, H. Lee, G. Regula, G. Wilson, J. Kielhorn, J. Stevenson, T. Hansell, P. Dodd, H. Elders, J. Andrews, D. Kakoske.

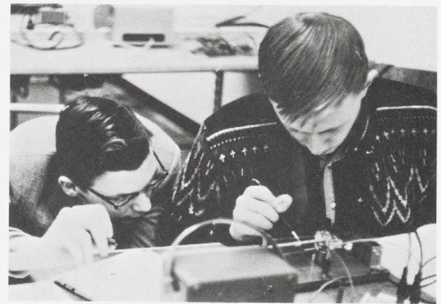
SECOND ROW: D. Konarski, D. Liang, G. Wong, J. Dunlop, D. Deneschuk, D. Kripiakevich, M. Worbanski, J. Potvin, G. Bateman, J. Abbas, K. Rows, R. Markewicz, J. Giesbrecht, T. Paige, D. Allen, A. Bryant, J. Reutcky, W. Krasnikoff, B. Curtis, C. Choy.

BACK ROW: A. Cheng, B. Elliott, B. Alsip, J. Mayhew, M. Turner, L. McPhail, G. Rheault, M. Ducheck, R. Neumann, P. Corby, T. Dring, A. Wiegert, R. Franklin, B. Lumsden, S. Willis, C. Moche, R. Jaskiewicz, I. Saunders, T. Smith, M. Lindeblom, S. Crampton.

The exuberant 2-E class, called from the best of the '69ers, claim to expend the least to get the most - how sweet it is!



ART NEED NOT BE RESTRICTED BY SUBTLETY AND GOOD TASTE.



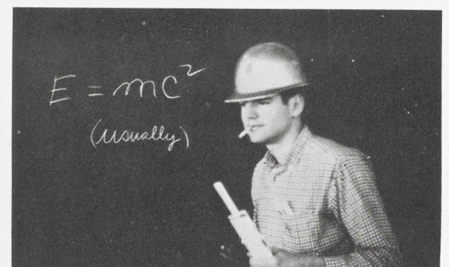
HUMAN ERROR



YOU DO SO HAVE LAB INSTRUCTORS!



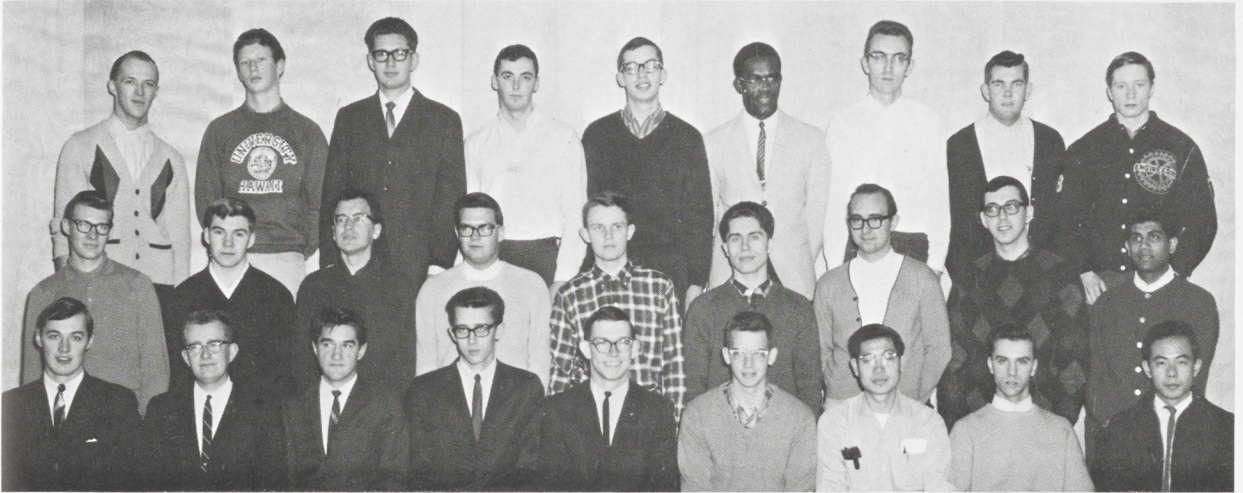
ZERO SWEAT!



"It's better to get ahead than get even."



# ELECTRICAL III "E"



FRONT ROW: Paul Vyrostko, Jim Couprie, Henry Hildebrandt, Len Lewkowich, Rick Lord, Mike Riley, Rick Chang, Rick Whiteford, Chuck Yuen.  
 SECOND ROW: Wayne Simpson, Bob Finsten, (alien), Don Lymburner, Don Johnson, Russ Hawkins, Peter Epp, Al Kraubner, Dave Benditt, Milton Moonah.  
 BACK ROW: Blaine Harrison, Dennis McCaffrey, Ken Dyck, Ian Jeffrey, Wayne Bush, Godwin Phillips, Dave Richards, Phil Stark, Howard Card.  
 MISSING: Tom Gillman, Bob Morin, Paul Magel, Wern Heid, John Metrycki, M. Sudfeld.

Behold the scholars of the "General Option". First, note "Scoop" Lymburner, who hasn't as yet found his dream girl, but thinks UMSU is the place to find her. Then there's Dave Benditt, whose seriousness and attention to detail is challenged only by Ian Jeffrey. It is rumored that these men will split the Gold Medal in half, and that Benditt will get the "larger" half. Let's not forget Jim Couprie who tops the 3E's in the total number of interviews attended, and his buddy and class rep. Rick Lord, whose rudeness was offset only by his numerous swinging parties.

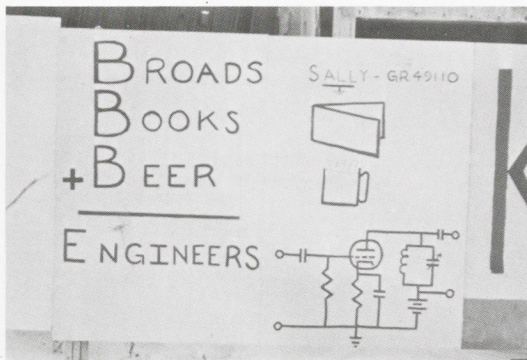
Len Lewkowich outdid himself by not swearing once all year, while, in juxtaposition, Howard Card made sure his voice was heard above the din. Card's buddy and

straight man, Wayne Bush, is well known for his excellent work and proper pledge attitude.

Weekends were rough always on Magel, Vyrostko and Heid and it usually took them all week to recuperate from Saturday night with their wives. Their smirking faces were indicative of untold married pleasures.

Dave Richards confidently hands in the barest minimum number of assignments while "KY Good Guy" Rick Whiteford and his "Golden Throat" is on the air more and studying less. Bobby Morin made sure that the 2E's assignments were marked as hard as his were when he was in second year, and Martin Sudfeld broke all known records by wearing the same suit jacket every day, all year.

As students, we're Simeon's worst and Yunik's best; all experts in the stage coach brake and in high speed complex number manipulations likened only to the IBM 360 in our speed and flexibility. All of us are destined for fourth year and the glory of having our little finger strangled by an iron ring.





# ELECTRICAL III "S"



FRONT ROW: Kin-Sing Siu, Chung-Yiu Yau, Gord Ryckman, Doug Chapman, Pete Wagner, Wayne Burtnyk, Anthony Ho.  
 BACK ROW: Tai-on Chan, Wayne Adolphe, Reimer Clausen, Chuck Hasselfield, Steve Duncan, Chow-kin Ma, Sing Man Woo.  
 MISSING: Bob Finsten, Richard Gurevich, Bob Hazel, Jim Jordan, Deiter Jung, Bob Tibbs, Wayne Zelt.

Look closely at this picture of the third year Electrical Science, the best engineering class ever assembled for purposes of experimentation on human endurance.

Note the wrinkles of confusion and fatigue hiding the intelligent look on our faces. A recent survey showed that the average class member spent all but seven hours of the week on homework. These seven hours were devoted to an attempt to understand three-phase power.

Men as devoted as we are don't spend too much time away from the books, but we have had some class parties with the other electrical group.

The class work of the fall term had

several highlights, among them a "discussion" in Energy Conversion over a matter of symbolism which ended in mass confusion, a visit from a human computer who showed us how easy it is to do Field Theory and a series of lectures by one of the "Cyclotron Boys".

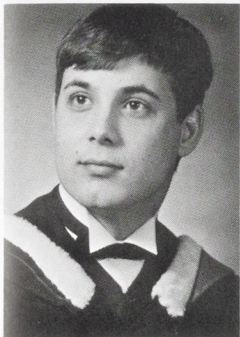
Ours is a class of devoted (refusing to go home until you finish a lab), talented (sleeping and eating in class), ambitious (taking Russian as an option), overworked men.

It is without a doubt the best class in the University. Hopefully we'll be in fourth year next year.



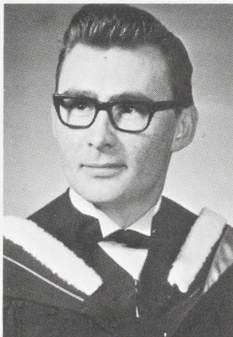


# ELECTRICAL GRADUATES



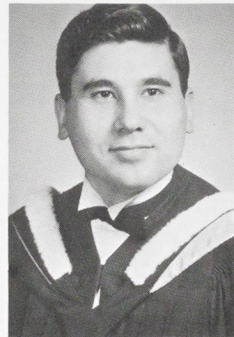
**LORNE BARKLEY**

Member of the finest lab group in 4E. If you can not find him at his own lab after 3:00, he is sure to be found demonstrating the third year electronics lab. Lorne, a married student, plans on graduate work in the field of microwaves under Dr. Wexler.



**DMYTROS BARON**

In exile from M. T. S. the "Red Baron" is proud owner of a Baroness and two Baronettes. Became partner in the B.H. & K. C-J Associates because he owns the references. Famous borrowed saying "You got to know it cold". Determined to work after graduation to give his wife a rest. Northern Electric has made a good choice.

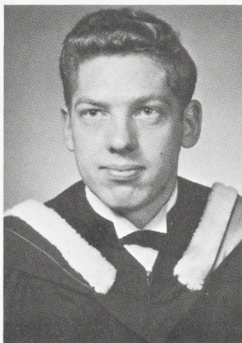
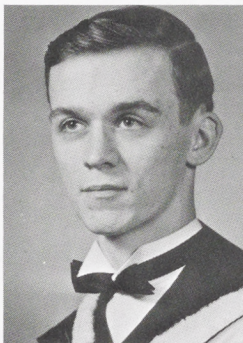


**BOB BLANCHARD**

Our only IEEE member who always gets billed graduate fees. Bob is quite competent in the electronics lab, but somehow never makes his Hi-Fi lectures. He is quite serious about his studies but at times his litigious qualities get the better of him. Future: Wpg. Hydro.

**BOB CARSON**

Entered into the profitable institution of marriage this last summer and has since cut his phone bill in half. Bob has the qualifications for success in any job. His future plans appear to be headed towards graduate work here at Manitoba.

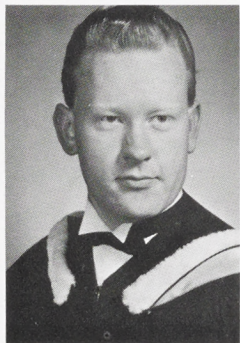


**NORM CASSIE**

Norm, who is one of the taller members of 4E, represented us in the chug-a-lug contest. Feared his 1938 Dodge would be unable to withstand the numerous trips to distant St. Boniface. Norm's future plans involve doing research on the foreign female visitors to Expo, and working for Northern Electric on the side.

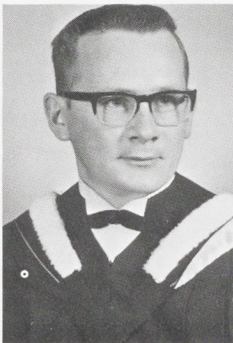
**WALTER FRIESEN**

Bound to succeed. He succeeded in remedying his sleeping in class by getting married last summer. He succeeds in his studies without killing himself doing so. His future plans include working for an eastern company and post graduate studies thereafter.



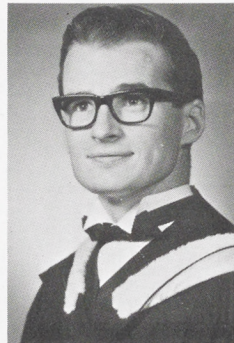
**ALBERT EPP**

"Easy Al" figures Hydro is for him. A champion on the volleyball court, Epp is also great at protecting his sisters from fellow Engineers. Big Bert is one-third of "The Great Spaz Act" in Electronics Lab. If it's "Epp and Lomenda", it can't be right.

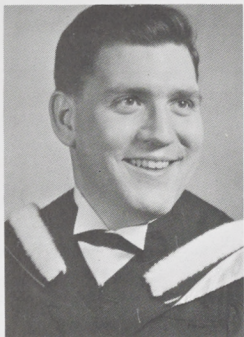


**JOHN DYCK**

John travels to campus from Springstien everyday. Because of a large capacity he must reduce the large charge build up by making a stopover at the Misericordia Hospital. He plans to work for Wpg. Hydro next year.

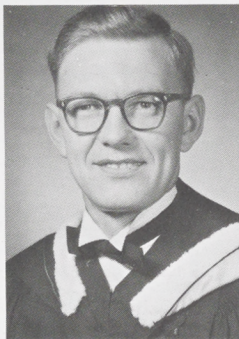






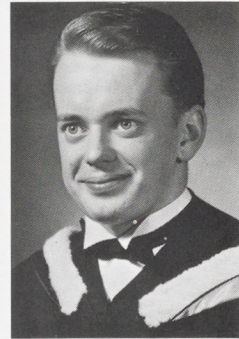
#### STAN HAGBORG

Stan is one of the "Terrible Trio" in the electronics lab that keeps the demonstrator guessing. Quote: "What do you mean there's a pole in the right half plane?" Besides practicing elbow bending, the "Jumbo Jugernaut" added skiing to his list of yearly endeavours. Good ol' "Schlitz and sitz" Stan.



#### HENRY HEINRICHS

Ex-TV technician but has trouble in the Electronics lab. Henry is married and refuses to fix TV on account of his wife. A senior partner in the B.H. & K. C-J Associates. Has his own office in the building. Future: Chief engineer, Motor Coach Industries.

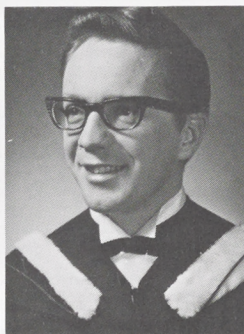
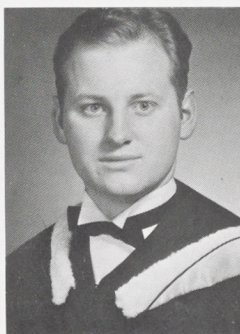


#### JIM HENRIKSON

Member of the finest lab group in 4E. Our blond-haired Iclander who hails from Selkirk is a sports enthusiast who enjoys badminton, curling, weight lifting and monopoly. Jim's interests lie in research and design in the control systems field.

#### JACK KATZBERG

Jack has the pleasant duty of being the secretary for the IEEE. As one of the front row boys of our class Jack enjoys the challenge of confusing the professors with difficult questions.



#### BOB KRUGER

Member of the finest lab group in 4E. Bob is finding fourth year studies no way to spend a honeymoon. This year he is the UMES Council Treasurer. Bob's interests lie in the management field. He is planning pursuit of these interests upon graduation.

#### CARL KUMMEN

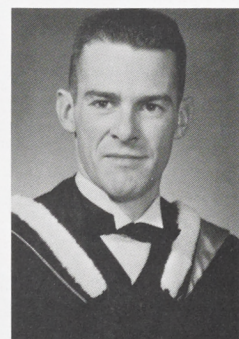
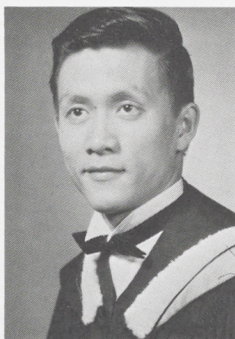
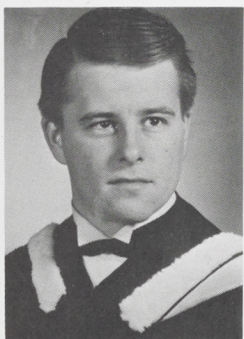
Carl is one of the 12 elite, the 60 H2 boys. One of our swingers and an avid skier? Carl with his red cap and his sax kept the bus to Point du Bois jumping. He is also a member of that small (sleepy?) group that has taken over the desks of room 402.

#### ANDREW KWAN

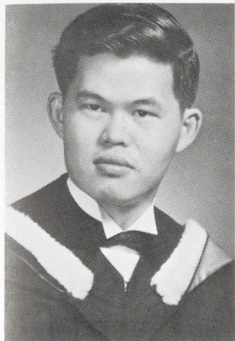
Andy's ambition is to return to Hong Kong and retire as soon as he can earn enough money. Since he has trouble tearing himself away from TV, he relies on intelligence and C - jobs to get him through.

#### DOUG LAIDLAW

One of the communications - oops, power men, Doug is often overheard mattering "What am I doing here?" Future: Ontario Hydro in Toronto.

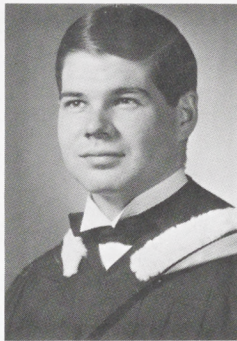






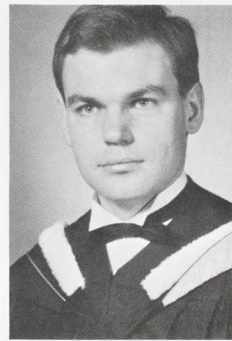
#### FANG-CHING LIM

Another of the Hi-Fi deserters. "Frank" is a 60 cycle man. Enjoys frustrating job-inter-viewers by tearing up employment information forms and can be heard telling F. S. "You are wrong!" Plans for the future are with Northern Electric.



#### JIM LINTON

Quiet Jim, chief of the SPD's has a foolproof system for gaining high marks; he does all his assignments and wraps them up in dirty ol' ten dollar bills. It gets a bit expensive but he uses it as a tax deduction. Another tax deduction Jim is considering is a nurse to help his "research" in Pinawa.

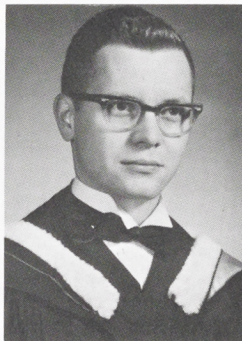
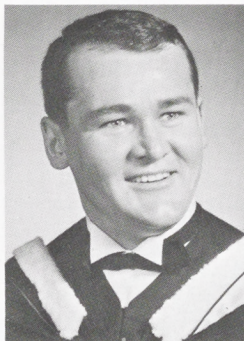


#### JOE LOTOSKI

Joe, an SPD, hails from Flin Flon. Claims his favourite pastime is teaching girls how to water-ski by day and play the guitar by night. Ambition: to get the Studebaker back to Flin Flon.

#### AL LOEWEN

One of the quiet members of our class who occupies one of the back row seats for those quick after class get-aways. Ambition: To get rid of the fourth year Electrical jinx.



#### BRYAN LOMENDA

Bryan is a "power boy" eagerly waiting to be absorbed into the power industry. He is the proud owner of a powerful Sunbeam which terrorizes the streets between St. Boniface and the University every morning and evening. Sports are Bryan's only other interests?

#### KAI LYNCE

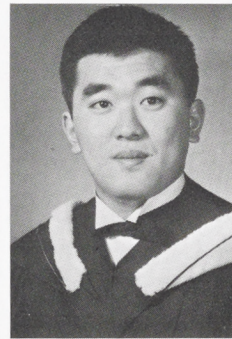
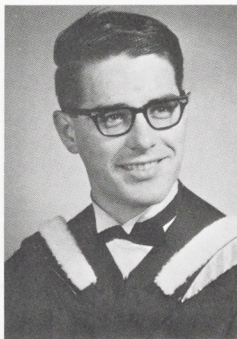
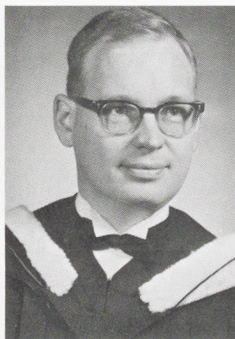
The "Littlest Viking" was the first to realize the unimportance of field theory. i.e. He became the first of "Mike's Men". You'd think that being an older student he'd have more scruples than to C-job. Future: designing wooden shoes for Carnaby Street (Keep Denmark in one piece, eh!)

#### MIKE McKAY

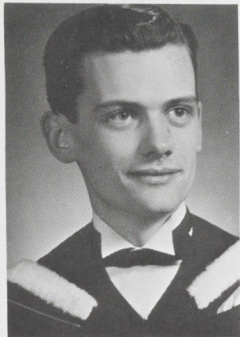
Mike is another one of those ill-fated 4E's whose labs never seem to work out right, except, of course, in his lab reports. He maintains the engineering tradition and frequently inspects the "Big M". Despite these habits Mike manages to be in the top part of the class.

#### BRIAN MITANI

Championship judo material. He was a late season cut from the 8-man football team and since has endeavoured to make his first successful serve in V-ball. Future: post grad studies in conversational Japanese or "Enforcer" for chairman Mao.

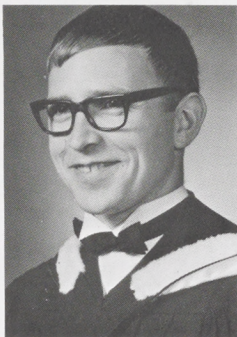






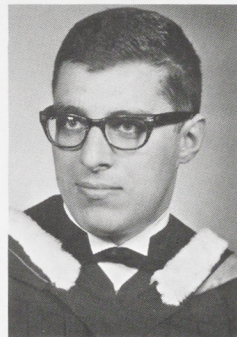
#### GLENN NICOL

Mr. Nicol, for those who have never seen him, is a power option student. We will see more of him now that his honey has gone home. In fact he misses her so much that he threatened to use his graduation robe as a disguise and break into the nearest convent. For what purpose? To play no doubt!



#### GLENN PATTYSON

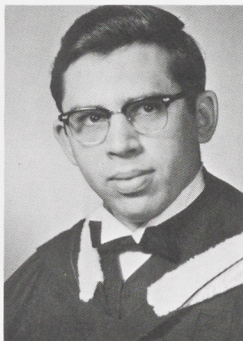
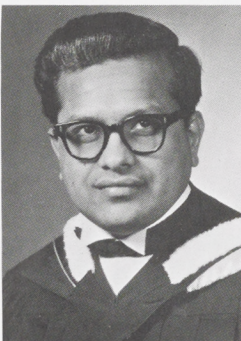
Missing nearly as many classes as his notorious roommate, this amiable, talented chap from Port Arthur still comes up with the winning combination. Sports-minded, his activities include curling, swimming, golfing, and a Fort William gal. Future: A promising one, probably with Kimberly-Clark, attempting to improve the absorbency of a certain product.



#### DENIS PROULX

Maybe you've noticed Denis wearing his Dr. Zhivago hat hiding his big red nose. He paid his way through University by selling booze in the PX in France this summer. He has no time for girls but spends his evenings dreaming of the babes at the Moulin Rouge.

DEO RAMNARINE  
Chairman of the I. E. E. E. which at times is as painful as it looks. Also interested in sports like Judo where he takes the part of the passive victim. As a matter of fact Deo is an assigned risk both because of his extra-curricular activities and personality.



#### JAMES ROIK

Roik an intelligent being? Bah!! He C-jobbed "Think and Do" exercises in Grade One. The alcohol content of his blood never drops below 95%. Nice to know isn't it that he'll never freeze to death. What's good about Roik? He's a POWER MAN. Future: Go-Go dancer at The Village. Best of luck Jim, where ever you end up!

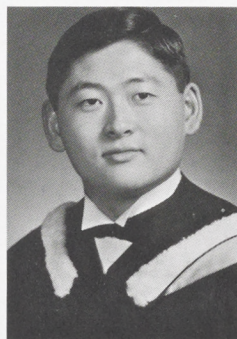
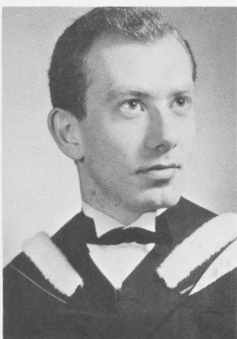
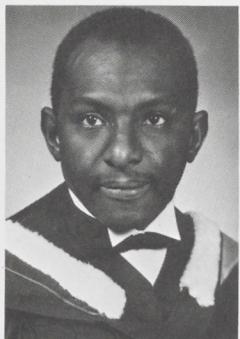
#### GERRY SAMPSON

Another of the married men in 4E, Gerry is the proud father of two. He spent a year in Science before deciding that there's no life like a beer-man's life. From sunny Trinidad, he plans to return home after working in Canada for a while. He is another firm believer that anything above 60 cycles is useless.

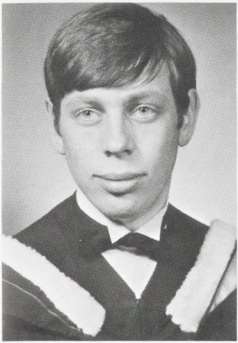
SHERIDAN SCHWARTZ  
Sherry originally from Winnipeg, is a member of the Zeta Beta Tau Fraternity and a steady customer of the "Big M". He works fairly hard at doing as little as possible and getting to know as many nurses as possible. Future includes taking post graduate work in circuit theory.

#### FRANK SHINYEI

Frank's sound judgment (elected power option) in combination with keenness will make him successful. His first intention was to work for a living, but he has been thinking of post-graduate studies since he took up pipe smoking. "Rots of Ruck" Frank.

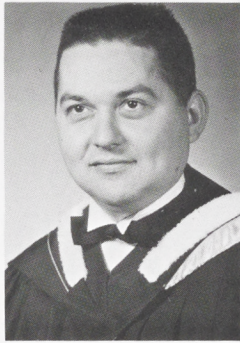






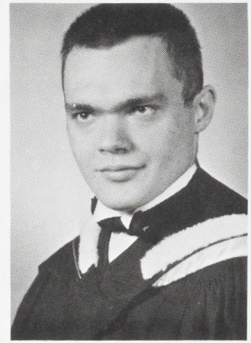
DAVID SHOULDICE

Dave turned his back on Communications to join "Mike's" men in Power. His all out efforts (?) in power labs were greatly appreciated. Says he makes a deep impression on a ski hill. Dave claims "Research and Development" is his future, probably for a mattress company.



STAN TOMCHYSHYN

Can be heard every Monday morning with the usual "Oh my aching head". Seemed to enjoy Mexico. Stan, as one of the older "men" of the class, made the big comeback to school and now intends to unleash his vast "Powers" with Wpg. Hydro.

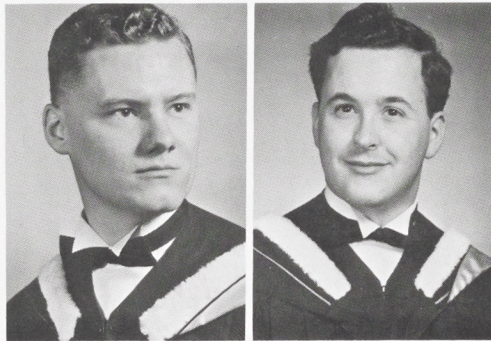


BOB URQUHART

The most wanted man by the 4E professors. Can be seen in the Engineering Building once in a while and seems to have the theory that the easiest way to pass is to forget about lectures. Ambition: To get carbon copy notes for the rest of the lectures this year.

ROSS VERMILYEA

Fur Foot spends most of his time roaming the Education IA building looking for queen candidates (supposedly) and squeezing his wineskins on bus trips. If he gets his head out from under the back seat of Stan's Volks, his ambition is to be King Kong of the ski slopes.

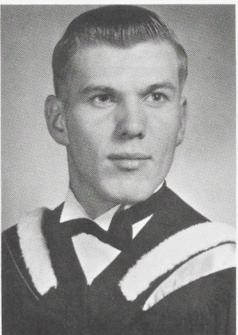


BILL WHITEHEAD

"To stay or not to stay, that is the question". It seems all these fellows who live in castles are troubled by indecision. Bill can't quite decide whether to venture out into the fortunes of the cruel world or to stay and take graduate studies in the warm bosom of University and home.

PETER WUEPPELMANN

Never was a guy who complained more about doing less, but who gets higher marks. "Wup-Wup" spent the winter collecting job offers, Air Canada ticket stubs, and Saki bottles. Peter is also the only man in the class who's already got a degree - B. B. S.





# OUR UNCOMMON ROOM



... with A-1 card tables, milk machine, and ...



# OUR LIBRARY







**GEOLOGICAL**



## GEOLOGICAL II



LEFT TO RIGHT:  
Wayne Peterson, Ed  
Solonyka, Keith Standing,  
Richard Coates.

### WAYNE PETERSON

There once was convert from electrical  
Who's attendance was a rare spectacle  
For exams he'd decline  
To get there on time  
And there's no other line that would rhyme.

### ED SOLONYKA

There once was a geologist named Ed  
Who was certainly not underfed  
He studies in the stacks  
And when girls turn their backs  
Up pops Solonyka's ..... head?

### KEITH STANDING

There once was a geologist named Keith  
Who loved to attend lectures by Leith  
So he could see all the slides  
In the darkness he hides  
And rolls up and goes to sleep.

### RICHARD COATES

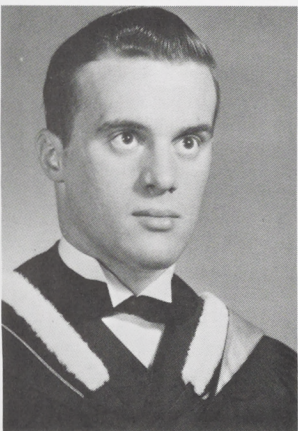
There once was a geologist named Coates  
Who C - jobbed all of his notes  
But the biggest joke  
Was when he tried to smoke  
And now he's a man ..... he hopes.

## GEOLOGICAL III



LEFT TO RIGHT:  
Gary Burns, Gord Hoover,  
Tom Lonergan, Eugene  
Urschel, Jack Bray.

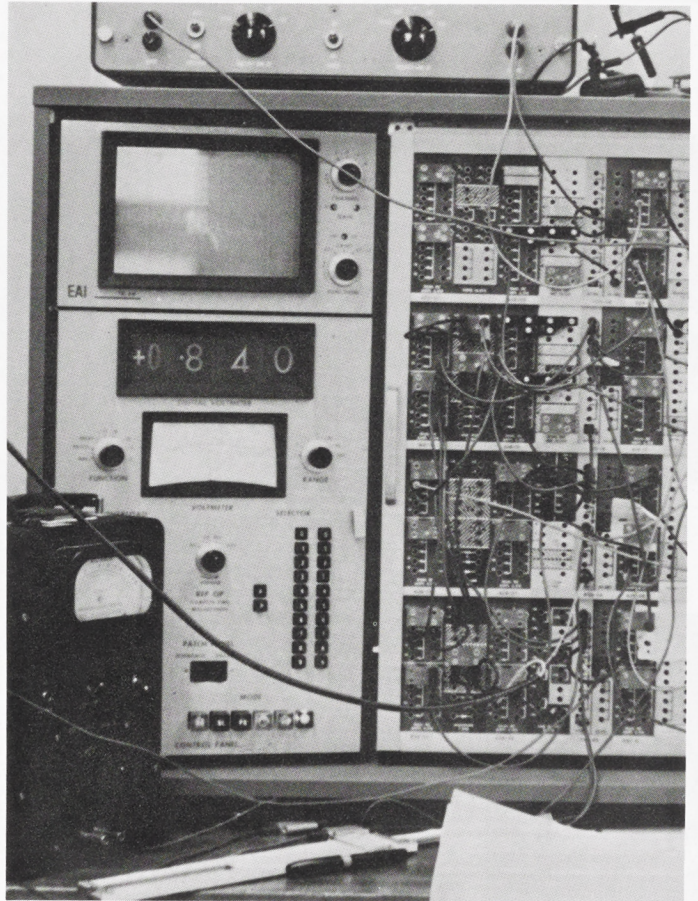
## GEOLOGICAL GRADUATE



### GARY GROVE

Appropriately, Gary comes from Gladstone. Geo seems to have difficulty in fitting his Engineering classes into his Geological time table. For three years he has been first in his class and is still trying to find out who came in second. Gary has plans for postgraduate work next year.

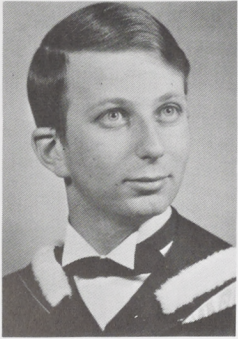




# ENGINEERING PHYSICS

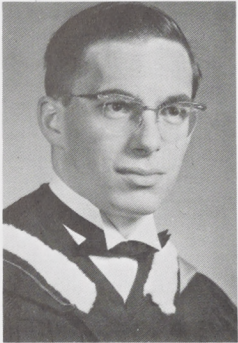


# E.P. GRADUATES



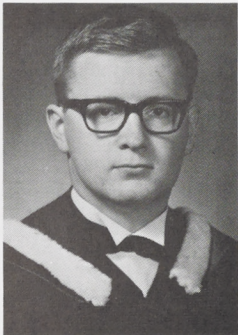
## JOEL GREENBERG

Has occupied with masterful skill the thankless role of mascot of the E. P. class of '67. No definite statements are possible on Joel's future plans, since he remains uncharacteristically silent about them. Rumour has it that he aspires to graduate work in Engineering at MIT, Caltech, or the University of Matchwood, Matchwood, Minnesota. This is still unverified.



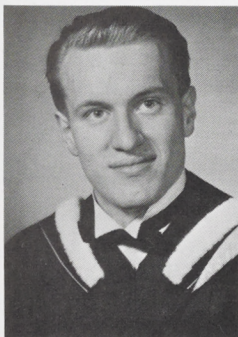
## GORDON GREENIAUS

Will be a renegade from Electrical Engineering. Interest lies in the building blocks of the universe (for the layman - in nuclear physics). Gordon's amorous exploits remain shrouded in deep mystery, but plans for graduate work consist of obtaining a doctorate from the University of Manitoba.



## BARRIE LEACH

The only married one of the lot, Barrie always manages to make it to 8:30 classes; well, almost always. He tells us he walks to University to get exercise. . . . Excelling academically, he is headed for graduate studies in control, at Manitoba.

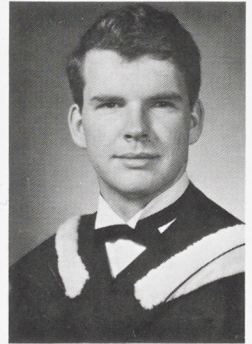


## GUENTHER PACKER

Top man in E. P. and no doubt in all of Engineering. Nominee for "Woodrow Wilson", Guenther plans to pursue graduate studies in Plasma Physics at Princeton. While breezing through Engineering Physics, this fellow still has had time for Montcalm lunch hours, and to fill his little black book. An all-round man, Guenther is headed for the top.

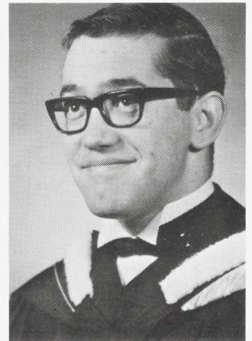
## ROGER NEUMAN

As well as representing E. P. at the Undergraduate Physics Conference, Roger participates in drama and still has time for the Montcalm. Being a moralist, he feels that wine, women and song cause the ruin of man, and so has given up singing. Next year's plans are graduate work in Electrical Engineering at the University of New Mexico.



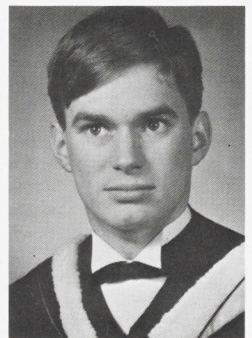
## STUART LESLIE

A genteel character and alteristic philanthropist. Obtained money from the Engineering Council to send two of his classmates to the Undergraduate Physics Conference in Toronto, and nobly declined to go on this trip. Stuart will work in industry next year, but he has not yet dismissed the prospect of graduate study from his aspirations.



## JOHN PATCHELL

Winner of an Athlone Fellowship and nominee for an NRC Centennial Scholarship, John is success bound. He never had much time to spend with the boys, but spent much of it at the main library with a certain girl. Graduate work is certain next year but the exact university is not known at present.







## ACTIVITIES



# FRESHIE WEEK



(With a little help) . . .

. . . We built a float . . .

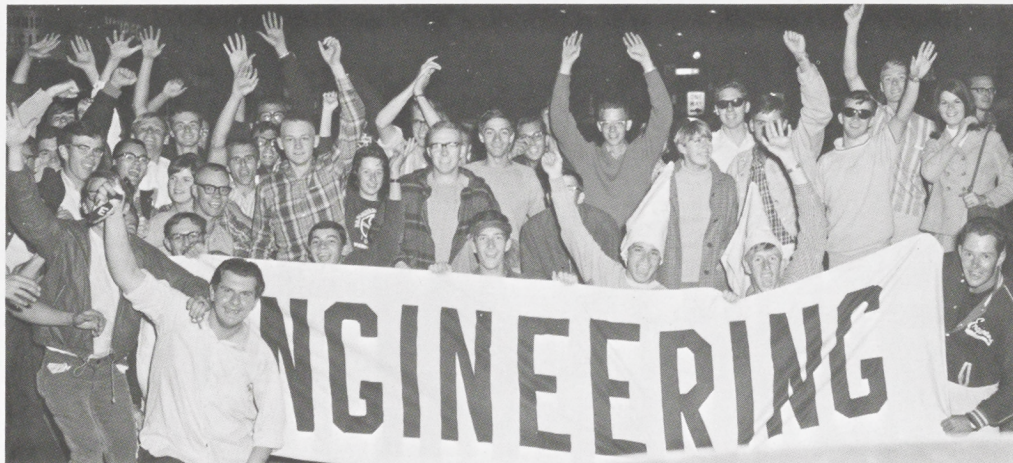
. . . By  
Far  
The  
Best  
In  
The  
Parade.



. . . As  
Was  
Our  
Queen,  
Miss  
Barbara  
Deyman.



Everyone  
Had  
A  
Great  
Time . . .



. . . While  
The  
Band  
Played  
On.

The Freshman Banquet . . .



. . . And the dance which followed (complete  
with 200 nurses) were highly successful.

Freshie Week Chairman, Ross Vermilyea  
(left) accepts trophy for Best Float from  
Senior Stick, Strutt.





# SOCIAL



KEN COOPER

SOCIAL CHAIRMAN

## COMMITTEE MEMBERS

John Reece  
Adrian Palmer  
Jim Mitchell

Brian Gibson  
Dave Donald  
Jim Linton

## FRESHMAN'S BANQUET

Once again this year, the frosh's annual fling took place in the Crystal Ballroom of the Royal Alexandra Hotel. The greatest attendance ever, 212 freshmen, were treat-

ed to a fine meal and appreciated words of welcome by our council's honorary president, Mr. R. T. Harland, Professor Chant and Wally Strutt.

The freshmen were introduced to their Freshie Queen, Miss Barbara Deyman.



Flanked by (left to right) Honorary President Harland, Senior Stick Wally Strutt and Professor Chant, Ross Vermilyea, the Freshie Week Chairman, presented our lovely queen with a bouquet of roses and the traditional Engineering Beer Mug.





Both the head table guests and the freshmen enjoyed themselves.



Following the meal, Mr. Harland presented sliderules to the three Freshmen carrying the best academic standings in-to Engineering.

To end this affair on the right note we were pleased to be able to entertain 200 nurses from Children's, General, and St. Boniface Hospitals. With the sounds of the

"Many Others" echoing throughout the ball-room, all present quickly got acquainted, to the delight of both the nurses and engineers.

## ENGINEERING STAG

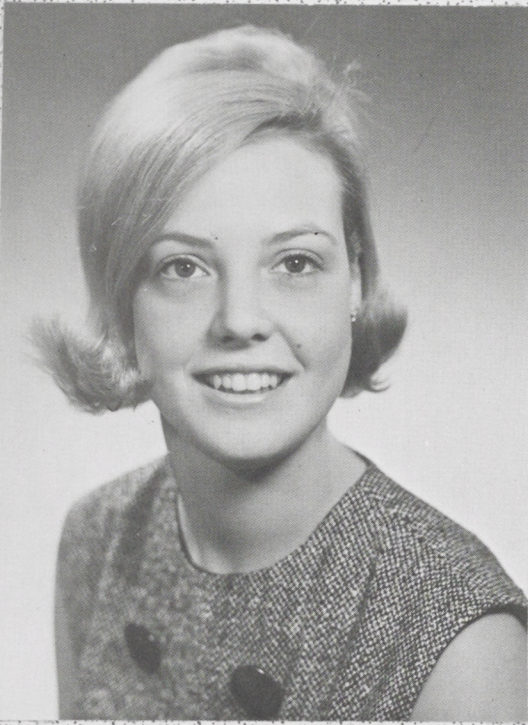
The reincarnated stag was held again for the second straight year. Over 200 people attended, all eager to promote good fellowship and sharpen their gentlemanly etiquette. The fine entertainment provided was thoroughly enjoyed by the entire crowd, the tests of speed and endurance being particularly

well received. Congratulations go out to Andy Pele and Norm Wiwcharuk for their extremely fine showing, as well as to all other participants who succeeded in keeping the engineering tradition up (with one exception).





# POWER PROM



SECOND YEAR  
Miss Suzanne Castling



ELECTRICAL  
Miss Barbara Hannah



SIGMA PHI DELTA  
Miss Sandy Hryciuk



CIVIL  
Miss Leslie Ann Moore



# QUEEN CANDIDATES



FIRST YEAR  
Miss Joan Bennett



MECHANICAL  
Miss Judy Horsfall



GEOLOGICAL  
Miss Judy Harrower



## 37th ANNUAL POWER PROM

The Fort Garry Hotel was once again the scene of the engineers' annual formal. (It's a good thing it comes only once a year). Another huge crowd was on hand to enjoy the great music of Lew Dickson in one ballroom and the sounds of the Gettysburg Address in the other. Both ballrooms were tastefully decorated by the Sigma Phi Delta fraternity, who also arranged for several excellent displays.

The Power Prom queen candidates were treated to a fine reception on the seventh floor mezzanine prior to the prom. Here they met and conversed with the judges until it was time for the crowning ceremonies.

Dr. Lansdown, the faculty advisor, began by introducing all seven girls and then introduced Mr. Hurst, the chief engineer for the City of Winnipeg.



It was Mr. Hurst's pleasure to announce Miss Judy Harrower as this year's queen.



Judy was then presented with the traditional beer mug by Mr. Hurst, and a bouquet of roses by Elaine Green, last year's Power Prom Queen.





Dean Hoogstraten had the pleasure of the first dance with Miss Harrower. Dancing then resumed until one o'clock. Parties continued a wee bit later.



My deepest sympathies go out to those who, due to the crowded conditions of the ballrooms were forced to dance on the tables and to those unfortunates who never succeed-

ed in locating the stairs from the eighth floor down to the seventh. I sincerely hope you were still able to enjoy yourselves.



# GRADS' FAREWELL

The International Inn on March 10, 1967, was the scene of our graduates' farewell party, their last chance to get together socially before grinding it out and finally leaving these familiar halls. The dinner,

the toasts that followed, and the christening of the mugs as well as the picture taking and dancing will long be remembered by this University's Centennial Class of Engineers.

# AWARDS BANQUET

Well done! What a great competitor! These and other salutations can always be heard at this event. This is the moment that the student body takes time out to reward those who have worked hard to provide engineering with the greatest, most useful council on campus. At the same time, we recognize those whose athletic ability and social endeavors have gone a long way to show that students in engineering are at the top - not only in their business pursuits, but also in their ability to associate and compete with students of any and every level of education.

Senior Stick Strutt received a miniature stick as well as a beer mug for a combined athletic and social 50 - point award. Dan Sernyk and Brian Wood received special 75 - point athletic awards. Gold mug executive awards were presented to Ted

Truman, Brian Gibson, Ken Cooper, and Bob Kruger. Ross Vermilyea, Barry Solnes, Ron Lowe, and Tam Mohammed were presented with Gold Mug Honoraries for council jobs well done.

Other awards ranged from the Montcalm Trophy for the outstanding graduating athlete and the Pony Corral Trophy for the athlete of the year, to the 50 - point beer mug, 35 - point sweater, 22 - point Silver "E", and 12 - point cloth "E".

In closing, I would sincerely like to thank those who volunteered their help and to hope that these social functions will help you to remember with pride and satisfaction the years you will have spent in this faculty.

Ken Cooper,  
Social Chairman.

# OUR BAND





# POWER PROM PEP RALLY



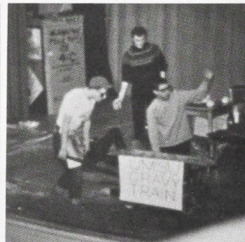
ROSS VERMILYEA,  
DRAMA CHAIRMAN.

On February 2nd, the Engineers again took over the Residence Auditorium for their annual Power Prom Pep Rally. The show got off to a rousing start as the "Smutty

Brothers", John Reece and Eugene Wawrin, provided the opening entertainment with a few jokes and songs. Wally Strutt, the Senior Stick, joined in the chorus and, though it was a tough act to follow, topped the program with the introduction of the Power Prom Queens. How sweet they were! All

of them seemed to make a favourable impression on the 80% male audience which voiced its approval in no small way.

Having been introduced, the Queens returned back-stage to make their debut in the Engineering Extravaganza starring Fagman and Roblin, the Boy Blunder, along with a cast of thousands. The skit attempted to portray campus life through the eyes of an engineer. Fagman, a grape from University College, flitted from scene to scene. Jim Peterson played Fagman and Bob Marshall was his caped cohort. Ultimately, however, they had to meet the fate of all University College-ites - a sound thrashing at the hands of the Engineers.





# ATHLETICS



BRIAN GIBSON  
ATHLETIC PRESIDENT

1966 - 67 has proven to be a trying year for engineers in sports. After winning the Lieutenant W.G. Kotchepaw Trophy, emblematic of the

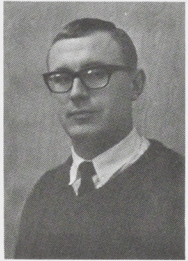
Intramural high-point championship, for the last 14 out of 15 years, we are now faced with the task of defeating our competition with an additional handicap hanging over our heads. This has been brought about by the passing of a new point system by the University Athletic Council which will place a handicap on faculties of larger enrollment.

At the present time, it is too early to tell how effective the new point system will be, as the Intramural Athletic Competition was far from being completed at the time

this report was published. If the new system makes the intramural competition truly a competition and does not favour the smaller faculties, as the old one favoured the larger faculties, then it will be a success, and the University athletic programme will truly benefit from it. However, if the new system fails, it will favour faculties such as Phys-Ed which is already stacked with athletic prowess, and the problem of one faculty dominating the Intramural programme year after year will not have been solved. Regardless of the outcome, Engineering had a truly successful season in sports.

In closing, I would like to thank all the convenors for their help during the year, and to next year's Athletic Committee, GOOD LUCK.

## TRACK AND FIELD



CONVENOR  
Dan Sernyk

BACK: T. Horkoff, S.  
Pearce, D. Sernyk, B.  
Litvinchuk.  
FRONT: B. Solnes, A.  
Lillies.



Once again Engineering sent a strong team into the Track and Field Meet held at Sargent Park in the fall. Convenor Dan Sernyk led his team to a second place finish behind Phys-Ed. Boris Shulakewych shone in the sprints, placing second in the 100

yards and 220 yards. Carl Schlenker came first in the triple jump and Convenor Sernyk dominated the meet with four wins, three of them being new records. Bill Litvinchuk and Allan Goldstone also did well in the distance events.

## CROSS-COUNTRY RACE

Rain and cool weather hampered this year's race and the participation from all faculties was poor. Twelve of the entries came from Engineering, with Al Lillies, Bob Inglis and D. Zeeuwen placing well.

## ROAD RACE

This gruelling race attracted six engineers with J. Livingstone, R. Clauseu and Al Lillies finishing strong.



# 8-MAN FOOTBALL



CONVENOR  
Brian Wood



Not this time .....



FRONT: B. Harrison, T. Horkoff, K. Cooper, B. Wood (Coach), B. Duval, W. Strutt, B. Mitani.  
BACK: P. Vyrotsky, D. Penner, B. Nicolson, A. Pele, B. Gibson, N. Wiwcharuk, J. Thomson.  
MISSING: B. Bower, J. Reece, J. Bray, R. Felstead.

Despite heavy losses of seniors from last year's championship team, this year's squad rallied to defeat Medicine for the "A" Division Championship and then won the Alumni Trophy by defeating Phys-Ed in the final.

Many thanks go to coach Brian Wood who molded a team with a great deal of depth in veterans Paul Vyrotsky, "Hands" Cooper, Andy "Fullback" Pele, "Hardrock" Wiwcharuk, Dennis Penner, Dave McKibbin, Bruce Bower, "Crash" Strutt, John Reece, Brian Mitani, Brian Gibson and Terry Horkoff. Rookies Brian Duval, Jim Bray, Rick Felstead, Bruce Nicolson, Jim Thompson and Blaine Harrison truly made the team complete.

## TENNIS

Ralph King, Rick Lycar, Bruce Piercy and Bob Marshall represented us well in the tennis singles and doubles. In the Inter-collegiate Tournament, Rick Borland and Gord Hoover played well with Borland winning the singles championship.

## GOLF

Convenor Don Henderson did an excellent job as Engineers represented 30% of the total entry in the annual golf tourney. Brian Hood came close to the winners with a fine 85, despite the high winds and cold weather.

## RIFLE CLUB

Under convenor Peter Wueppelmann, 8 teams entered the Intramural Rifle Competition. Team Captains Wueppelmann, Mackie, Bob Zeaton, Roy Houston, Grant MacWilliam, Stan Nowak, Lorne Douglas, and Ron Lycar claim they could use a few Annie Oakleys on their teams.



## TABLE TENNIS

Due to the conflicting date with our Stag and the lack of interest for this event on a Friday night, only six Engineers entered the tournament. T. Robinson did well in reaching the semi-finals.

## SWIM MEET

Convenor Angus Edghill and swim team members C. Yuen, D. Sparkes, G. Melnyk, G. Leung, R. Fenton, L. Muirhead, R. Prentice and J. LeNeveu represented us in the annual swim meet held in the campus pool. The team is a young one and should produce some record times next year.

## HANDBALL

Convenors Andy Pele and Gil Clifford and experienced players Ed Faraci and Tim Stratton entered the tournament to give us full participation in this event. However, the competition proved to be tough as our boys did not make the second round.



## SOCCER



SENIOR TEAM  
FRONT: K. Puckall, A. Stephen, D. McHardy, T. Gaul.  
BACK: L. Batson, S. Pearce, S. Spicoluk, D. Nalezty, T. Kuluk, B. Litvinchuk.



CONVENOR  
Ken Puckall.

Despite a shortage of players and a bit of overconfidence after last year's championship, the Senior team scrambled to make the playoffs. They defeated Science in a sudden-death game to reach the final against Phys-Ed.

The final featured 50 mph winds and four

overtime periods. Being partial, it can be said that Phys-Ed won on the toss of a coin as they obtained the wind for the sudden death overtime.

Convenor Ken Puckall also came up with a strong Junior team which just missed the finals.

## FLAG FOOTBALL



CONVENOR  
Bob Hempstock

ENGINEERING  
FRONT: B. Clapham, D. Peacock.  
BACK: J. Megson, S. Pearce, D. Sernyk, B. Litvinchuk, D. Pearson.  
MISSING: L. Gershman, D. Zeeuwen.



Engineering represented almost 50% of the total participation in Flag Football this year, thanks to the great job done by convenor Bob Hempstock. Six of our thirteen

teams reached the playoffs with Engineering 1 losing out to Phys-Ed in the championship final.



## SNOW SHOE RACE

Our team of Lillies, Dalebozik and "Crash" Strutt managed to cross the finish line for a third place team finish with "Trapper" Lillies the individual winner.



## CURLING



### CONVENORS

Ken Peake, Tim Storey

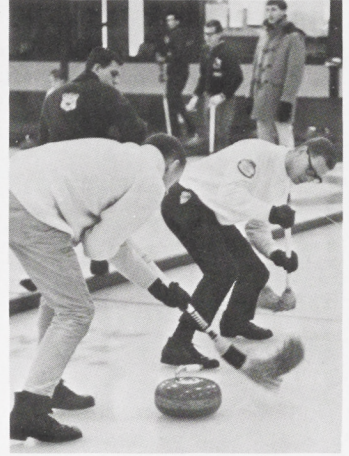


Al Lillies delivers.



### LARRY WHITNEY

Calls for Sweeping



Al Brown and John Towle go to work.

Although at press time, the curling schedule was far from completed, from the results so far, it looks as though Engineering will sweep this competition. We entered 12 rinks in the Interfaculty League of which 8 have made the double knock-out tournament to decide the championship. Many of these rinks went undefeated and

with 50% of the rinks in the tournament, it looks as though we will capture the championship.

The race for the House League Trophy is wide open with the Storey rink having the inside track. Thanks go to convenors Tim Storey and Ken Peake for a well-organized curling season.

## BASKETBALL



CONVENOR  
Terry Horkoff.

### NUMBER ONE SENIOR TEAM

FRONT: Ken Cooper,  
Terry Horkoff, G. Filmon,  
Lew Gershman.

BACK: Tom Thorsteinson,  
Gord McLure, Dan Sernyk,  
Dennis Penner.



Convenor Terry Horkoff has done an excellent job in organizing our 3 Senior and 2 Junior basketball teams. In the Senior Division our number one team is currently undefeated and almost certain to win the championship.

In the Junior Division, Engineering 4 is currently placed second and Engineering 5 is third. A Sweep in basketball is a strong possibility.



# VOLLEYBALL



This year the volleyball roster did not break any records, but we did field 25 crack, experienced squads. Indeed it is with proud heart that they are trouncing their competition. In the Junior Division, four of the six leagues are topped by Engineering teams, while two out of five lead in the Intermediate League. The Senior team is facing some tough competition, but is still managing to win some games.

Convenors Jim Mitchell and Paul Vyrostko must be congratulated for a job well done.

# HOCKEY

This year Engineering entered a record six teams in the various Intramural Hockey Leagues. With the first round just completed, five of these six have made the second round cut-off and will compete for their League Championship.

The highlight of the hockey season came when the number one Junior C team led by Jim Mitchell, Brian Wood, Ken Peake, Bob Hempstock, Brian Gibson, Ken Cooper, Kurt Sawatzky and Adrian Palmer defeated the Aggies the morning after Power Prom. The rumour has it that the boys were not holding their heads up quite as high as usual.

CONVENOR,  
Al Stephen

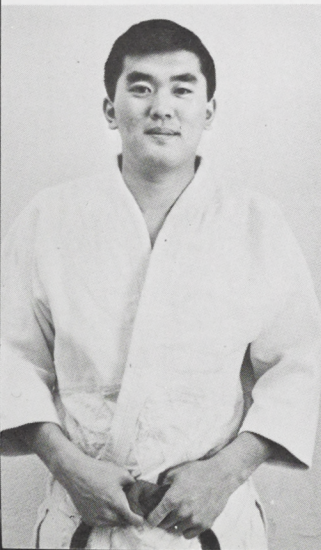


The credit for the success of this year's hockey programme must go to Convenor Al Stephen who has undoubtedly handled this job better than anyone ever has.

# INTER-COLLEGIATE

Furthering the success of the University and upholding the name of the Engineering Faculty are the men who played on the

Varsity teams. These Engineers deserve a lot of credit for their ability to play in top calibre competition.



Brian Mitani,  
Black Belt,  
Judo Convenor.

In November, Brian was the Individual Color-Belt Category winner in the Mid-West Open Judo.

In February, he won the Individual Middleweight Championship in W. C. I. A. A. competition at Saskatoon.

Football . . . . .	Tim Stratton
	J. McDonald
Curling . . . . .	Rick Borland
	Rick Scott
	Harley McKellar
	Brian Murphy
	Rick Walker
Tennis. . . . .	Rick Borland
	Gord Hoover
Volleyball . . . . .	Lew Gershman
Judo. . . . .	Brian Mitani
Track and Field . . . . .	Dan Sernyk
	Bill Litvinchuk
Basketball . . . . .	Bob Inglis
Soccer. . . . .	Carl Musson



# DEBATING



ED SHINEWALD  
DEBATING CHAIRMAN.

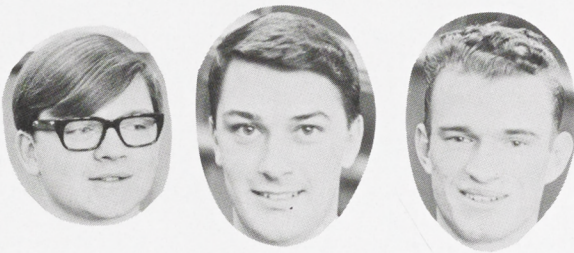
As in other years, debating was scarcely supported. But, those that did attend and participate in debates were appreciated.

The year started with the annual "Student - Prof. Debate". Professors Lazar and "Rocky" Russell held up the professors' end, and ran to a draw against Tam Mohammed and John Frye.

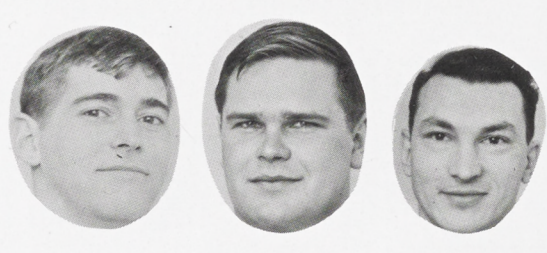
Later in the year during regular inter-class debates, the topics ran from Playboy to Vietnam, to the church, and to romance. The debates were interesting and well presented. Generally they were judged by Gord McClure, Tam Mohammed and Wally Strutt.

Dingwall Debates were not too successful due to a campus - wide apathy. However, engineering fared quite well, thanks to Tam Mohammed, Rick Waraksa, Gord McLure, and Wally Strutt.

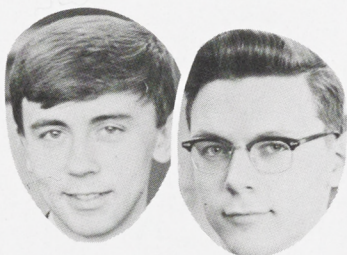
# ELECTIONS



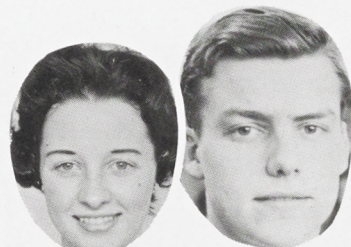
SENIOR STICK CANDIDATES  
Ron Lowe, Jim Buchanan, Rick Waraksa  
Elected



ATHLETIC PRESIDENT CANDIDATES  
Bruce Piercy, Andy Pele, Earl Perkins,  
Elected



VICE - STICK  
Roman Diduch  
Elected Gary Bateman



SECRETARY  
Kathy Gissing  
Elected Adrian Palmer



# ACKNOWLEDGEMENTS

This centennial edition of the SLIDERULE is an attempt at portraying a year in the lives of engineers at The University of Manitoba. As much as possible, this was done with pictures. It is hoped that none will

be offended because either a picture did appear or did not appear.

Many thanks go to the innumerable contributors, with special thanks to the following:

## The Patrons

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Paul Charach) "excellent service,  
fine workmanship, high integrity,  
pleasant nature" and his modesty.

*Barry Holmes*  
Editor

## ODDS AND ENDS

THESE ARE THE ODDS...



AND THIS IS THE END.





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